



FCC RF Test Report

APPLICANT : Motorola Solutions, Inc.
EQUIPMENT : WAVE TWO-WAY RADIO TLK 100
BRAND NAME : Motorola
MODEL NAME : TLK 100
MODEL NUMBER : HK2112A
FCC ID : AZ489FT7117
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Jul. 17, 2022 ~ Sep. 14, 2022

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR850818-02A	Rev. 01	Initial issue of report	Nov. 10, 2022



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 6.71 dB at 5117.390 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 17.80 dB at 3.681 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

Motorola Solutions, Inc.
8000 West Sunrise Blvd., Ft Lauderdale, Florida 33322, United States

1.2 Manufacturer

Motorola Solutions, Inc.
8000 West Sunrise Blvd., Ft Lauderdale, Florida 33322, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	WAVE TWO-WAY RADIO TLK 100
Brand Name	Motorola
Model Name	TLK 100
Model Number	HK2112A
FCC ID	AZ489FT7117
EUT supports Radios application	LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 355661090006370 Conduction: N/A Radiation: N/A
HW Version	P3
SW Version	TLK100_BASE_ENG_R03_05_01
EUT Stage	Production Unit

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	<p><5180 MHz ~ 5240 MHz> 802.11a : 15.26 dBm / 0.0336 W 802.11n HT20 : 13.04 dBm / 0.0201 W 802.11n HT40 : 12.30 dBm / 0.0170 W 802.11ac VHT20 : 10.96 dBm / 0.0125 W 802.11ac VHT40 : 10.35 dBm / 0.0108 W 802.11ac VHT80 : 9.74 dBm / 0.0094 W</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 15.14 dBm / 0.0327 W 802.11n HT20 : 13.30 dBm / 0.0214 W 802.11n HT40 : 12.15 dBm / 0.0164 W 802.11ac VHT20 : 11.77 dBm / 0.0150 W 802.11ac VHT40 : 10.63 dBm / 0.0116 W 802.11ac VHT80 : 9.87 dBm / 0.0097 W</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 14.88 dBm / 0.0308 W 802.11n HT20 : 13.06 dBm / 0.0202 W 802.11n HT40 : 12.00 dBm / 0.0158 W 802.11ac VHT20 : 12.77 dBm / 0.0189 W 802.11ac VHT40 : 11.53 dBm / 0.0142 W 802.11ac VHT80 : 10.97 dBm / 0.0125 W</p>
99% Occupied Bandwidth	<p><5180 MHz ~ 5240 MHz> 802.11a : 16.78 MHz 802.11n HT20 : 17.73 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT20 : 17.38 MHz 802.11ac VHT40 : 36.06 MHz 802.11ac VHT80 : 74.93 MHz</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 16.73 MHz 802.11n HT20 : 17.73 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT20 : 17.38 MHz 802.11ac VHT40 : 36.06 MHz 802.11ac VHT80 : 74.93 MHz</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 16.78 MHz 802.11n HT20 : 17.73 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT20 : 17.73 MHz 802.11ac VHT40 : 36.06 MHz 802.11ac VHT80 : 74.93 MHz</p>
Antenna Type / Gain	<p><5180 MHz ~ 5240 MHz> Internal FPC Antenna with gain 1.00 dBi</p> <p><5260 MHz ~ 5320 MHz> Internal FPC Antenna with gain 1.00 dBi</p> <p><5500 MHz ~ 5720 MHz ></p>



	Internal FPC Antenna with gain 1.00 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

1.5 Modification of EUT

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

1.6 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
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 03CH03-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-KS	AUDIX	E3	6.2009-8-24a
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:

- ♦ 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

- 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 (Y/Z 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)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500- 5720 MHz MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	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
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

- 1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.



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
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 2 Idle + Bluetooth Link + WLAN Link(5GHz) + Adapter 1 + Battery + Earphone 1
	Mode 2 : LTE Band 4 Idle + Bluetooth Link + WLAN Link(5GHz) + Adapter 1 + Battery + Earphone 2
	Mode 3 : LTE Band 5 Idle + Bluetooth Link + WLAN Link(5GHz) + Adapter 1 + Battery + Earphone 3
	Mode 4 : LTE Band 13 Idle + Bluetooth Link + WLAN Link(5GHz) + Adapter 1 + Battery + Earphone 4
	Mode 5 : LTE Band 2 Idle + Bluetooth Link + WLAN Link(5GHz) + Adapter 1 + Battery + Earphone 5
Remark:	
1. The worst case of conducted emission is mode 1; only the test data of it was reported.	
2. For Radiated Test Cases, The tests were performance with Adapter 1, Battery and Earphone 2.	

Simultaneous transmission
802.11ac VHT80 Tx Ch42 + LTE Band13 Link



Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		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. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

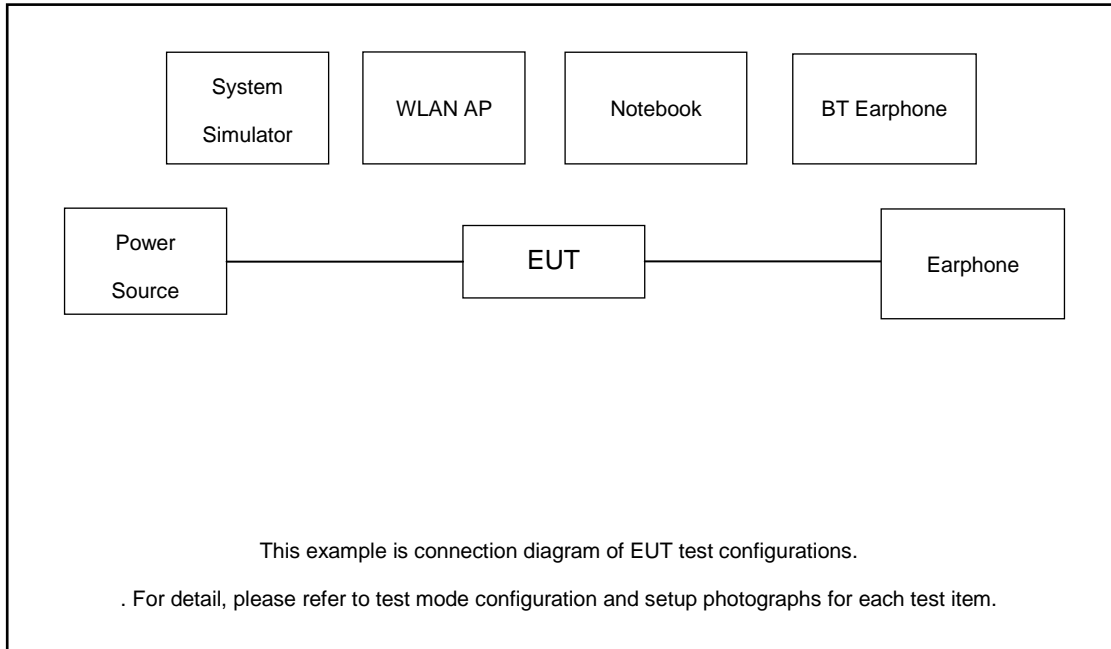
Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142



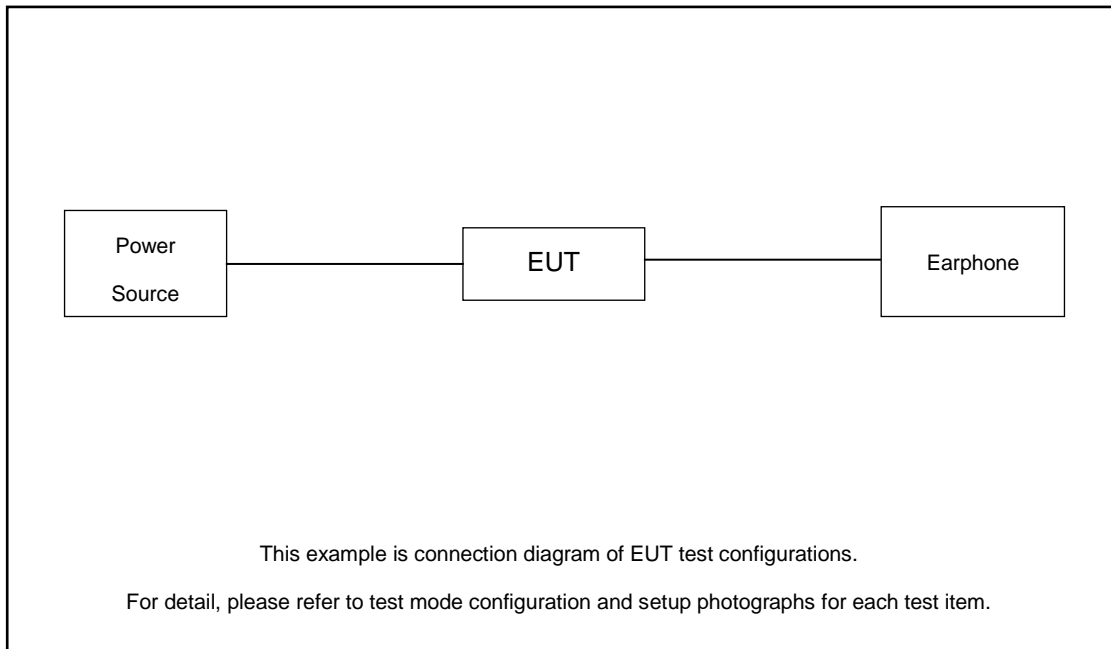
Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5720 MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated 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.	Mobile Phone	ZTE	A1	N/A	N/A	N/A
3.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8m
4.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous 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 6.5 dB.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 6.5(\text{dB})
 \end{aligned}$$

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.

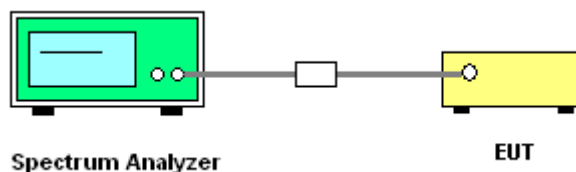
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

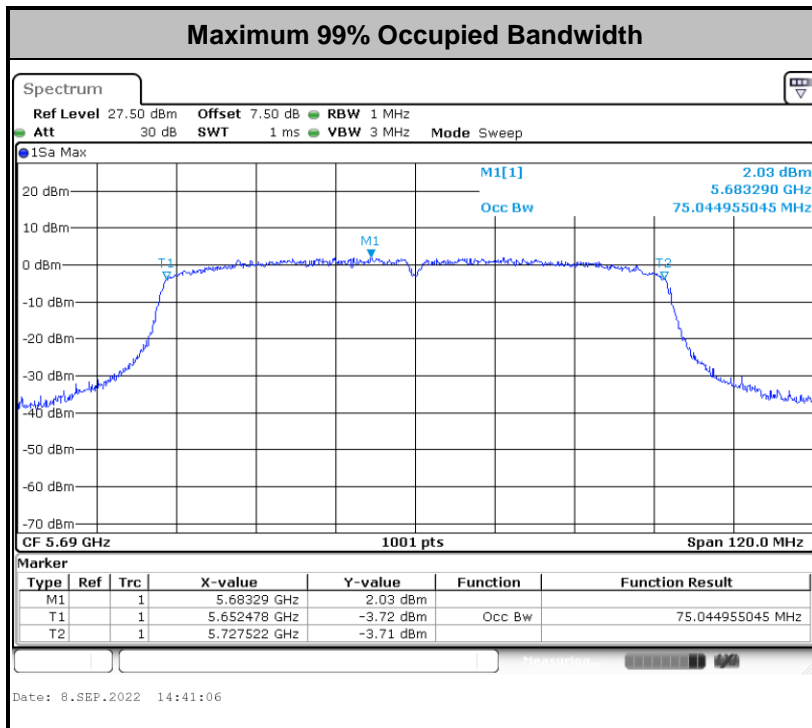
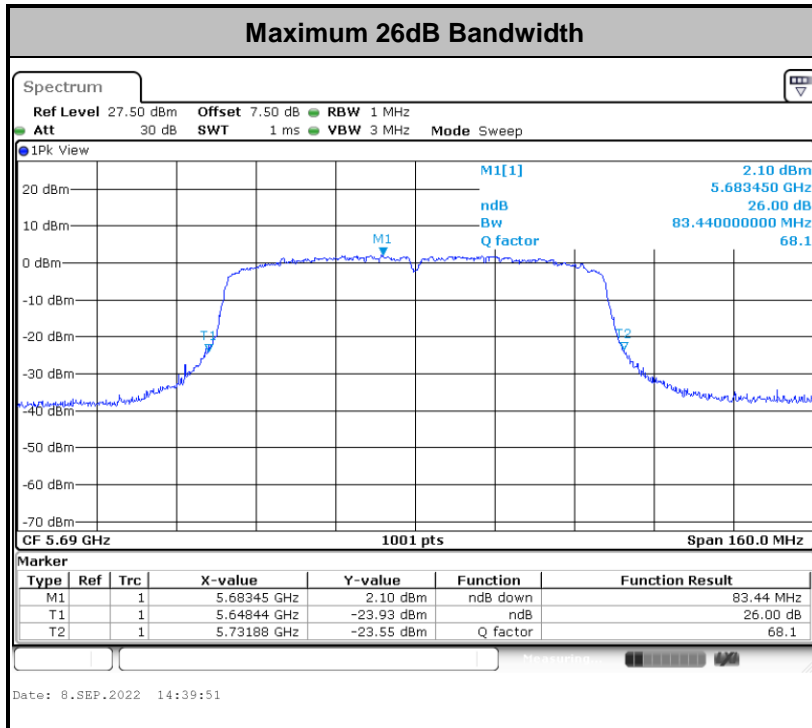
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB 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

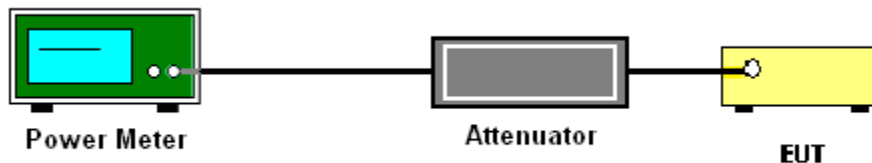
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

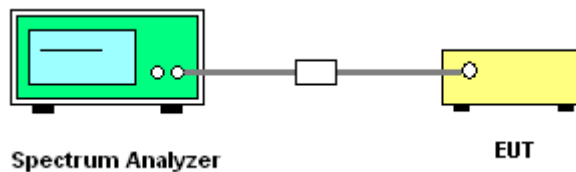
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

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

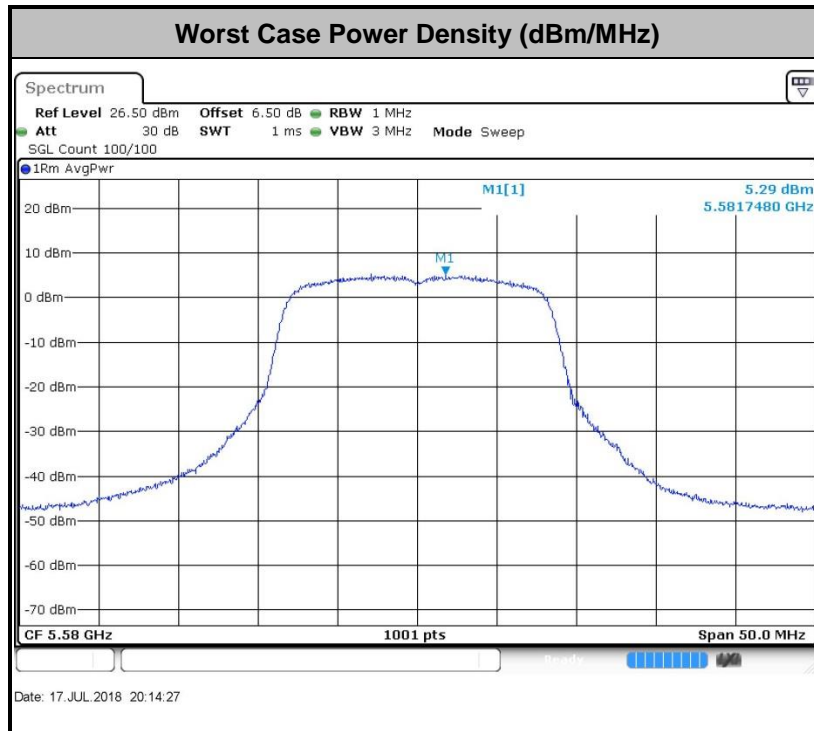
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, 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	68.3

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.

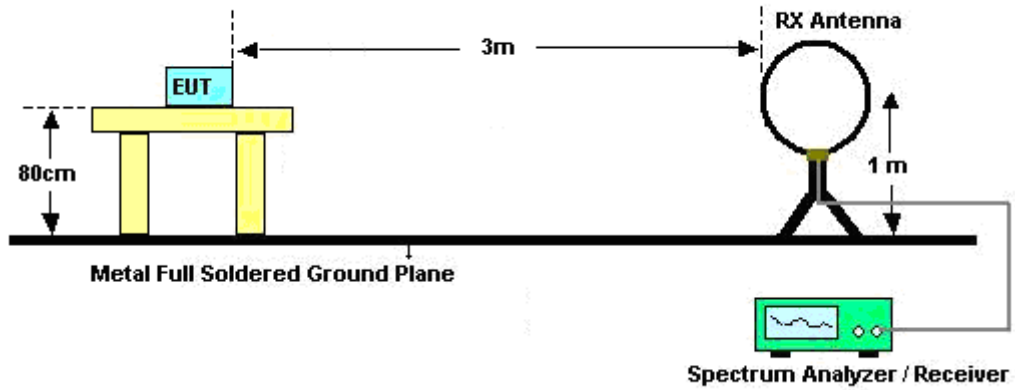


3.4.3 Test Procedures

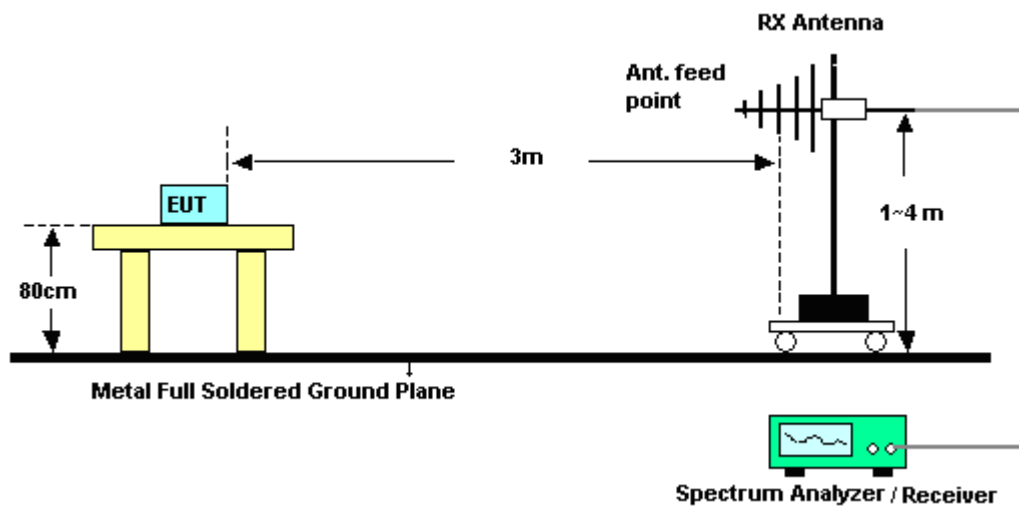
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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

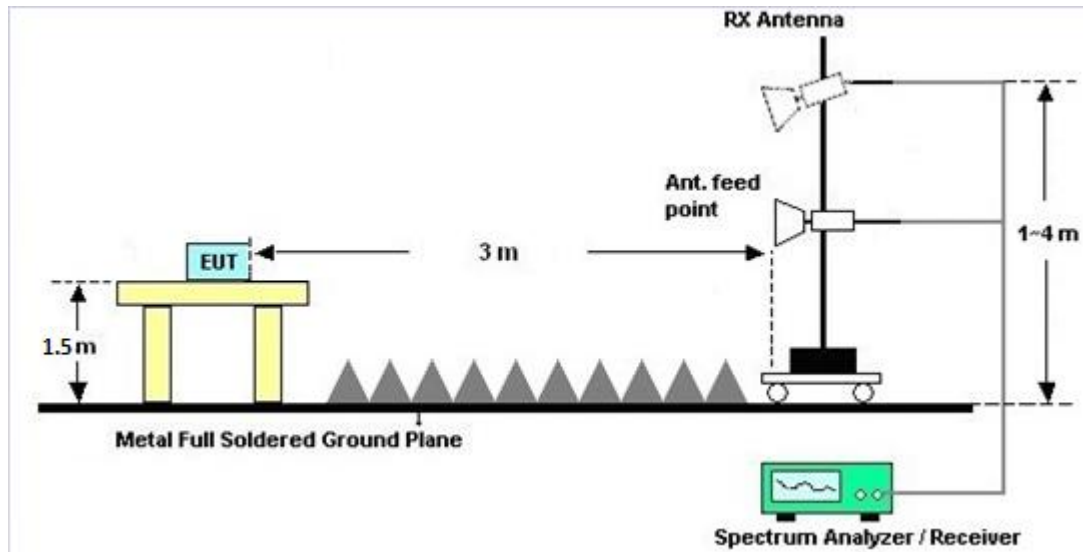
For radiated emissions below 30MHz



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 (dB μ V)	
	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.

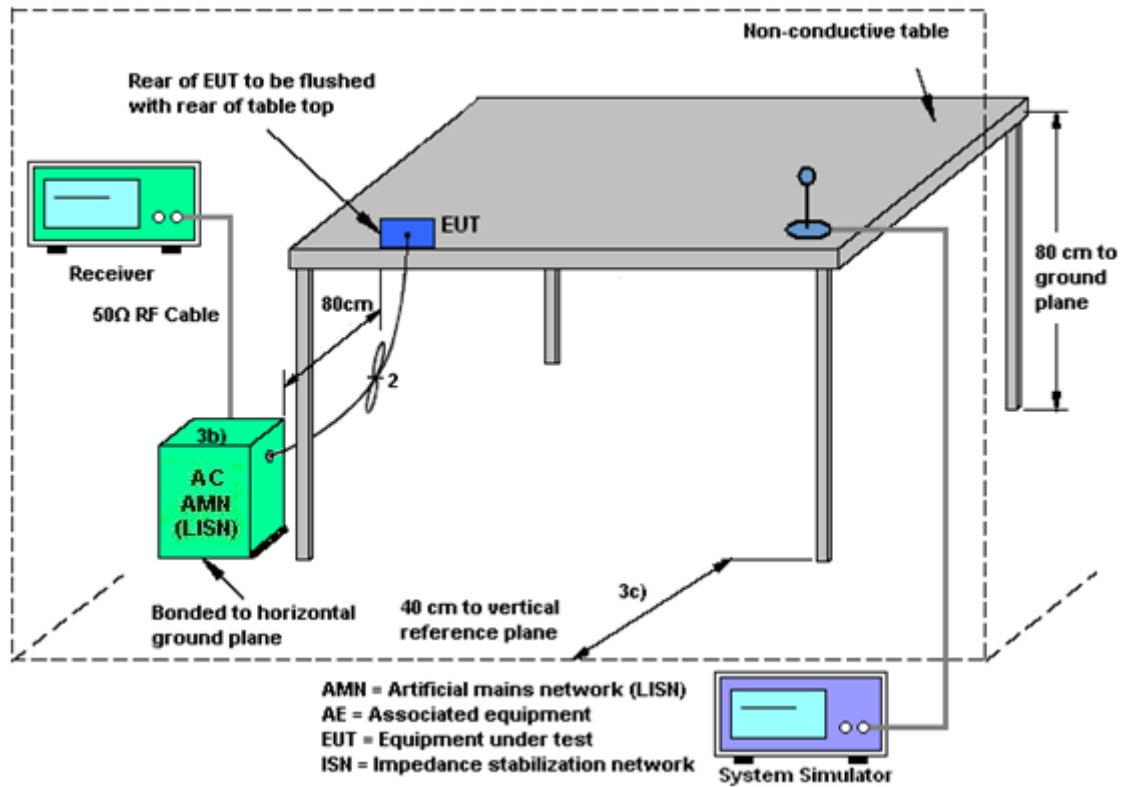
3.5.2 Measuring Instruments

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	Aug. 08, 2017	Jul. 17, 2018~ Aug. 01, 2018	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 18, 2018	Jul. 17, 2018~ Aug. 01, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Jul. 17, 2018~ Aug. 01, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Jul. 17, 2018~ Aug. 01, 2018	Oct. 11, 2018	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Sep. 08, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Sep. 08, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Sep. 08, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 26, 2021	Sep. 08, 2022	Oct. 25, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 19, 2017	Jul. 31, 2018~ Aug. 06, 2018	Oct. 18, 2018	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 17, 2018	Jul. 31, 2018~ Aug. 06, 2018	Apr. 16, 2019	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2017	Jul. 31, 2018~ Aug. 06, 2018	Oct. 21, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	47610	30MHz~1GHz	Sep. 12, 2017	Jul. 31, 2018~ Aug. 06, 2018	Sep. 11, 2018	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 21, 2018	Jul. 31, 2018~ Aug. 06, 2018	Jan. 20, 2019	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Jul. 31, 2018~ Aug. 06, 2018	Feb. 06, 2019	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 17, 2018	Jul. 31, 2018~ Aug. 06, 2018	Apr. 16, 2019	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Jul. 31, 2018~ Aug. 06, 2018	Apr. 16, 2019	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 12, 2017	Jul. 31, 2018~ Aug. 06, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18~40GHz	Oct. 12, 2017	Jul. 31, 2018~ Aug. 06, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 31, 2018~ Aug. 06, 2018	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 31, 2018~ Aug. 06, 2018	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 31, 2018~ Aug. 06, 2018	NCR	Radiation (03CH03-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz; Max 30dBm	Oct. 14, 2021	Sep. 14, 2022	Oct. 13, 2022	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44GHz	Oct. 14, 2021	Sep. 14, 2022	Oct. 13, 2022	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 23, 2021	Sep. 14, 2022	Oct. 22, 2022	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz~1GHz	Dec. 22, 2021	Sep. 14, 2022	Dec. 21, 2022	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Dec. 24, 2021	Sep. 14, 2022	Dec. 23, 2022	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101115	18GHz~40GHz	Dec. 23, 2021	Sep. 14, 2022	Dec. 22, 2022	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102220	30MHz ~1000MHz	Oct. 14, 2021	Sep. 14, 2022	Oct. 13, 2022	Radiation (03CH03-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 05, 2022	Sep. 14, 2022	Jan. 04, 2023	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082394	1Ghz-18Ghz	Jan. 05, 2022	Sep. 14, 2022	Jan. 04, 2023	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 14, 2021	Sep. 14, 2022	Oct. 13, 2022	Radiation (03CH03-KS)



AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Sep. 14, 2022	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 14, 2022	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 14, 2022	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 19, 2018	Jul. 31, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Jul. 31, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Jul. 31, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Jul. 31, 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% ($U = 2Uc(y)$)	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
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Appendix A. Conducted Test Results

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2018/7/17~2022/9/08	Relative Humidity:	51~55	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1										
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	16.73	20.73	-	22.24		
11a	6Mbps	1	44	5220	16.78	20.78	-	22.25		
11a	6Mbps	1	48	5240	16.73	20.88	-	22.24		
HT20	MCS0	1	36	5180	17.68	21.58	-	22.48		
HT20	MCS0	1	44	5220	17.73	21.63	-	22.49		
HT20	MCS0	1	48	5240	17.68	21.83	-	22.48		
HT40	MCS0	1	38	5190	35.96	41.45	-	23.01		
HT40	MCS0	1	46	5230	36.06	41.45	-	23.01		

TEST RESULTS DATA
Average Power Table

U-NII-1										
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	0.34	15.26	24.00	1.00		Pass
11a	6Mbps	1	44	5220	0.34	15.13	24.00	1.00		Pass
11a	6Mbps	1	48	5240	0.34	15.01	24.00	1.00		Pass
HT20	MCS0	1	36	5180	0.35	13.04	24.00	1.00		Pass
HT20	MCS0	1	44	5220	0.35	12.86	24.00	1.00		Pass
HT20	MCS0	1	48	5240	0.35	12.74	24.00	1.00		Pass
HT40	MCS0	1	38	5190	0.47	12.30	24.00	1.00		Pass
HT40	MCS0	1	46	5230	0.47	12.11	24.00	1.00		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-1										
Mod.	Data Rate	N _{TX}	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	0.34	4.92	11.00	1.00		Pass
11a	6Mbps	1	44	5220	0.34	4.90	11.00	1.00		Pass
11a	6Mbps	1	48	5240	0.34	4.76	11.00	1.00		Pass
HT20	MCS0	1	36	5180	0.35	2.36	11.00	1.00		Pass
HT20	MCS0	1	44	5220	0.35	2.58	11.00	1.00		Pass
HT20	MCS0	1	48	5240	0.35	2.74	11.00	1.00		Pass
HT40	MCS0	1	38	5190	0.47	-1.05	11.00	1.00		Pass
HT40	MCS0	1	46	5230	0.47	-1.37	11.00	1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1										
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)		
VHT20	MCS0	1	36	5180	17.38	20.33	-	22.40		
VHT20	MCS0	1	44	5220	17.38	20.63	-	22.40		
VHT20	MCS0	1	48	5240	17.38	20.48	-	22.40		
VHT40	MCS0	1	38	5190	36.06	40.91	-	23.01		
VHT40	MCS0	1	46	5230	35.96	40.55	-	23.01		
VHT80	MCS0	1	42	5210	74.93	82.80	-	23.01		

TEST RESULTS DATA
Average Power Table

U-NII-1										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
VHT20	MCS0	1	36	5180	0.25	10.92	24.00	1.00		Pass
VHT20	MCS0	1	44	5220	0.25	10.96	24.00	1.00		Pass
VHT20	MCS0	1	48	5240	0.25	10.92	24.00	1.00		Pass
VHT40	MCS0	1	38	5190	0.41	10.14	24.00	1.00		Pass
VHT40	MCS0	1	46	5230	0.41	10.35	24.00	1.00		Pass
VHT80	MCS0	1	42	5210	0.82	9.74	24.00	1.00		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-1										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
VHT20	MCS0	1	36	5180	0.25	-0.98	11.00	1.00		Pass
VHT20	MCS0	1	44	5220	0.25	-0.77	11.00	1.00		Pass
VHT20	MCS0	1	48	5240	0.25	-0.80	11.00	1.00		Pass
VHT40	MCS0	1	38	5190	0.41	-4.56	11.00	1.00		Pass
VHT40	MCS0	1	46	5230	0.41	-4.51	11.00	1.00		Pass
VHT80	MCS0	1	42	5210	0.82	-8.00	11.00	1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A										
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)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	16.68	20.83	23.22	29.22	23.98	
11a	6M bps	1	60	5300	16.73	20.88	23.24	29.24	23.98	
11a	6M bps	1	64	5320	16.73	20.73	23.24	29.24	23.98	
HT20	MCS 0	1	52	5260	17.68	21.53	23.48	29.48	23.98	
HT20	MCS 0	1	60	5300	17.68	21.58	23.48	29.48	23.98	
HT20	MCS 0	1	64	5320	17.73	21.73	23.49	29.49	23.98	
HT40	MCS 0	1	54	5270	36.06	41.36	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	35.96	41.63	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2A										
Mod.	Data Rate	N _{TX}	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	0.34	15.14	23.98	1.00	26.99	Pass
11a	6M bps	1	60	5300	0.34	14.83	23.98	1.00	26.99	Pass
11a	6M bps	1	64	5320	0.34	14.63	23.98	1.00	26.99	Pass
HT20	MCS 0	1	52	5260	0.35	13.30	23.98	1.00	26.99	Pass
HT20	MCS 0	1	60	5300	0.35	13.08	23.98	1.00	26.99	Pass
HT20	MCS 0	1	64	5320	0.35	12.91	23.98	1.00	26.99	Pass
HT40	MCS 0	1	54	5270	0.47	12.15	23.98	1.00	26.99	Pass
HT40	MCS 0	1	62	5310	0.47	11.83	23.98	1.00	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A										
Mod.	Data Rate	N _{TX}	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	0.34	5.48	11.00	1.00		Pass
11a	6M bps	1	60	5300	0.34	5.15	11.00	1.00		Pass
11a	6M bps	1	64	5320	0.34	5.12	11.00	1.00		Pass
HT20	MCS 0	1	52	5260	0.35	3.10	11.00	1.00		Pass
HT20	MCS 0	1	60	5300	0.35	3.42	11.00	1.00		Pass
HT20	MCS 0	1	64	5320	0.35	3.25	11.00	1.00		Pass
HT40	MCS 0	1	54	5270	0.47	-1.02	11.00	1.00		Pass
HT40	MCS 0	1	62	5310	0.47	-1.35	11.00	1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A											
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	
VHT20	MCS 0	1	52	5260	17.38	20.63	23.40	29.40	23.98		
VHT20	MCS 0	1	60	5300	17.38	20.43	23.40	29.40	23.98		
VHT20	MCS 0	1	64	5320	17.38	20.43	23.40	29.40	23.98		
VHT40	MCS 0	1	54	5270	35.96	40.73	23.98	30.00	23.98		
VHT40	MCS 0	1	62	5310	36.06	40.73	23.98	30.00	23.98		
VHT80	MCS 0	1	58	5290	74.93	82.64	23.98	30.00	23.98		

TEST RESULTS DATA
Average Power Table

U-NII-2A										
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
VHT20	MCS 0	1	52	5260	0.25	11.69	23.98	1.00	26.99	Pass
VHT20	MCS 0	1	60	5300	0.25	11.71	23.98	1.00	26.99	Pass
VHT20	MCS 0	1	64	5320	0.25	11.77	23.98	1.00	26.99	Pass
VHT40	MCS 0	1	54	5270	0.41	10.44	23.98	1.00	26.99	Pass
VHT40	MCS 0	1	62	5310	0.41	10.63	23.98	1.00	26.99	Pass
VHT80	MCS 0	1	58	5290	0.82	9.87	23.98	1.00	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
VHT20	MCS 0	1	52	5260	0.25	-0.23	11.00	1.00		Pass
VHT20	MCS 0	1	60	5300	0.25	-0.25	11.00	1.00		Pass
VHT20	MCS 0	1	64	5320	0.25	-0.25	11.00	1.00		Pass
VHT40	MCS 0	1	54	5270	0.41	-4.43	11.00	1.00		Pass
VHT40	MCS 0	1	62	5310	0.41	-4.24	11.00	1.00		Pass
VHT80	MCS 0	1	58	5290	0.82	-8.09	11.00	1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C										
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)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	16.73	20.78	23.24	29.24	23.98	
11a	6M bps	1	116	5580	16.73	20.78	23.24	29.24	23.98	
11a	6M bps	1	140	5700	16.73	20.83	23.24	29.24	23.98	
11a	6Mbps	1	144	5720	16.78	20.98	23.25	29.25	23.98	
HT20	MCS 0	1	100	5500	17.73	21.63	23.49	29.49	23.98	
HT20	MCS 0	1	116	5580	17.73	21.58	23.49	29.49	23.98	
HT20	MCS 0	1	140	5700	17.73	21.63	23.49	29.49	23.98	
HT20	MCS0	1	144	5720	17.68	21.63	23.48	29.48	23.98	
HT40	MCS 0	1	102	5510	36.06	41.63	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.06	41.63	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	35.96	41.54	23.98	30.00	23.98	
HT40	MCS0	1	142	5710	36.06	41.72	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2C										
Mod.	Data Rate	N _{TX}	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	0.34	14.84	23.98	1.00	26.99	Pass
11a	6M bps	1	116	5580	0.34	14.88	23.98	1.00	26.99	Pass
11a	6M bps	1	140	5700	0.34	14.69	23.98	1.00	26.99	Pass
11a	6Mbps	1	144	5720	0.34	14.82	23.98	1.00	26.99	Pass
HT20	MCS 0	1	100	5500	0.35	13.03	23.98	1.00	26.99	Pass
HT20	MCS 0	1	116	5580	0.35	13.02	23.98	1.00	26.99	Pass
HT20	MCS 0	1	140	5700	0.35	13.00	23.98	1.00	26.99	Pass
HT20	MCS0	1	144	5720	0.35	13.06	23.98	1.00	26.99	Pass
HT40	MCS 0	1	102	5510	0.47	11.95	23.98	1.00	26.99	Pass
HT40	MCS 0	1	110	5550	0.47	12.00	23.98	1.00	26.99	Pass
HT40	MCS 0	1	134	5670	0.47	11.89	23.98	1.00	26.99	Pass
HT40	MCS0	1	142	5710	0.47	11.94	23.98	1.00	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C										
Mod.	Data Rate	N _{TX}	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	0.34	5.04	11.00	1.00		Pass
11a	6M bps	1	116	5580	0.34	5.63	11.00	1.00		Pass
11a	6M bps	1	140	5700	0.34	5.25	11.00	1.00		Pass
11a	6Mbps	1	144	5720	0.34	5.17	11.00	1.00		Pass
HT20	MCS 0	1	100	5500	0.35	3.32	11.00	1.00		Pass
HT20	MCS 0	1	116	5580	0.35	3.19	11.00	1.00		Pass
HT20	MCS 0	1	140	5700	0.35	3.53	11.00	1.00		Pass
HT20	MCS0	1	144	5720	0.35	3.30	11.00	1.00		Pass
HT40	MCS 0	1	102	5510	0.47	-1.54	11.00	1.00		Pass
HT40	MCS 0	1	110	5550	0.47	-1.26	11.00	1.00		Pass
HT40	MCS 0	1	134	5670	0.47	-1.21	11.00	1.00		Pass
HT40	MCS0	1	142	5710	0.47	-1.25	11.00	1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C										
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
VHT20	MCS 0	1	100	5500	17.43	20.73	23.41	29.41	23.98	
VHT20	MCS 0	1	116	5580	17.38	20.53	23.40	29.40	23.98	
VHT20	MCS 0	1	140	5700	17.38	20.83	23.40	29.40	23.98	
VHT20	MCS0	1	144	5720	17.73	20.98	23.49	29.49	23.98	
VHT40	MCS 0	1	102	5510	35.96	40.73	23.98	30.00	23.98	
VHT40	MCS 0	1	110	5550	36.06	40.64	23.98	30.00	23.98	
VHT40	MCS 0	1	134	5670	35.96	40.73	23.98	30.00	23.98	
VHT40	MCS0	1	142	5710	35.96	41.00	23.98	30.00	23.98	
VHT80	MCS 0	1	106	5530	74.93	82.64	23.98	30.00	23.98	
VHT80	MCS0	1	122	5610	74.93	83.28	23.98	30.00	23.98	
VHT80	MCS 0	1	138	5690	74.04	83.44	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2C										
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
VHT20	MCS 0	1	100	5500	0.25	12.52	23.98	1.00	26.99	Pass
VHT20	MCS 0	1	116	5580	0.25	12.52	23.98	1.00	26.99	Pass
VHT20	MCS 0	1	140	5700	0.25	12.77	23.98	1.00	26.99	Pass
VHT20	MCS0	1	144	5720	0.25	12.73	23.98	1.00	26.99	Pass
VHT40	MCS 0	1	102	5510	0.41	11.11	23.98	1.00	26.99	Pass
VHT40	MCS 0	1	110	5550	0.41	11.22	23.98	1.00	26.99	Pass
VHT40	MCS 0	1	134	5670	0.41	11.53	23.98	1.00	26.99	Pass
VHT40	MCS0	1	142	5710	0.41	11.42	23.98	1.00	26.99	Pass
VHT80	MCS 0	1	106	5530	0.82	10.58	23.98	1.00	26.99	Pass
VHT80	MCS0	1	122	5610	0.82	10.79	23.98	1.00	26.99	Pass
VHT80	MCS 0	1	138	5690	0.82	10.97	23.98	1.00	26.99	Pass

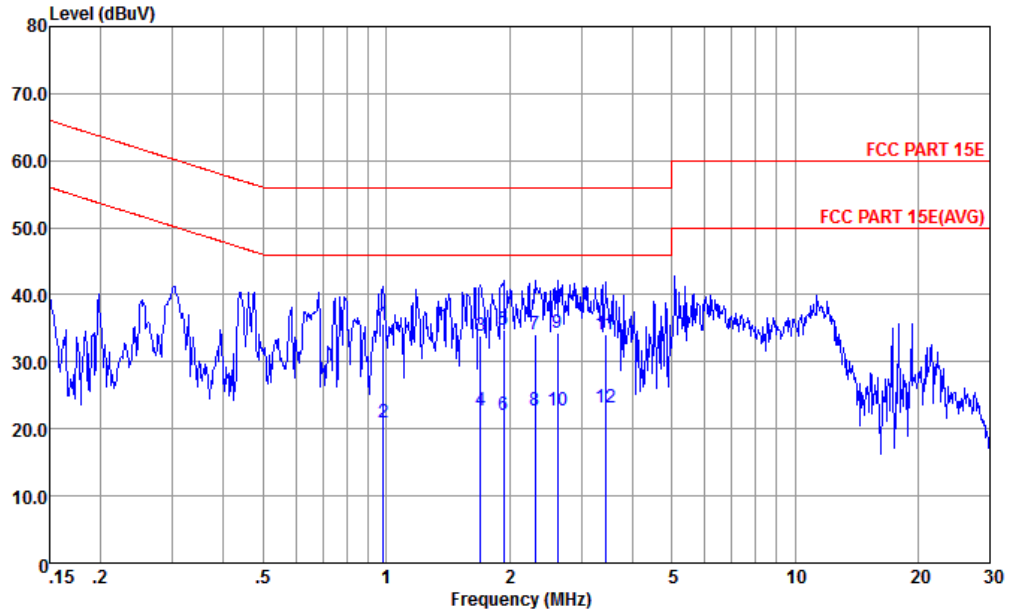
TEST RESULTS DATA
Power Spectral Density

U-NII-2C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
VHT20	MCS 0	1	100	5500	0.25	-0.20	11.00	1.00		Pass
VHT20	MCS 0	1	116	5580	0.25	0.44	11.00	1.00		Pass
VHT20	MCS 0	1	140	5700	0.25	0.77	11.00	1.00		Pass
VHT20	MCS0	1	144	5720	0.25	0.90	11.00	1.00		Pass
VHT40	MCS 0	1	102	5510	0.41	-3.44	11.00	1.00		Pass
VHT40	MCS 0	1	110	5550	0.41	-3.55	11.00	1.00		Pass
VHT40	MCS 0	1	134	5670	0.41	-3.62	11.00	1.00		Pass
VHT40	MCS0	1	142	5710	0.41	-3.43	11.00	1.00		Pass
VHT80	MCS 0	1	106	5530	0.82	-7.22	11.00	1.00		Pass
VHT80	MCS0	1	122	5610	0.82	-7.44	11.00	1.00		Pass
VHT80	MCS 0	1	138	5690	0.82	-6.76	11.00	1.00		Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	29.3~29.6°C
		Relative Humidity :	54~59%
Test Voltage :	120Vac / 60Hz	Phase :	Line

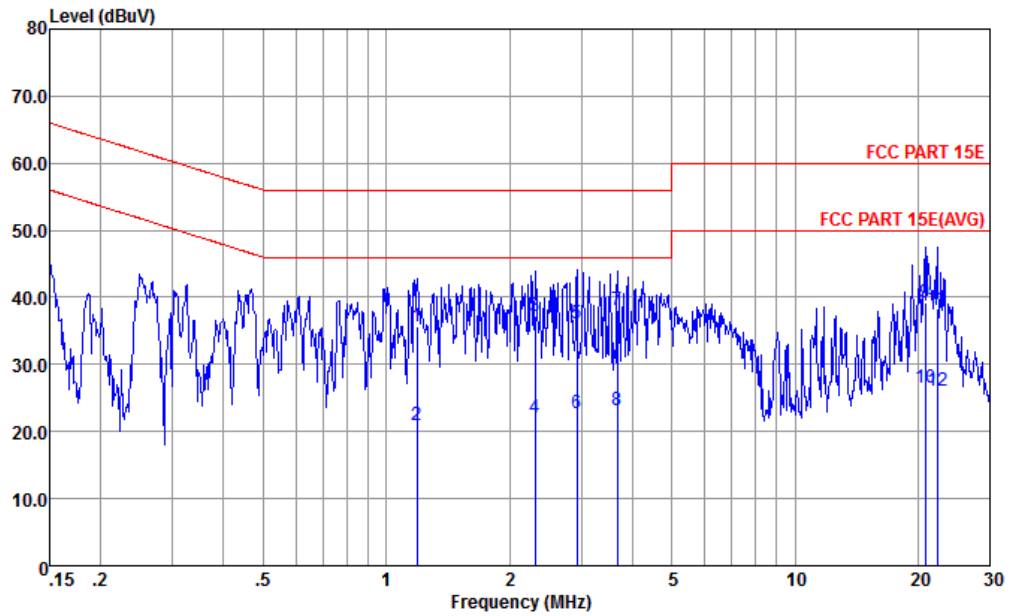


Site : CO01-KS
 Condition : FCC PART 15E LISN-L-171013-060103 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.984	35.57	-20.43	56.00	25.20	0.26	10.11	QP
2	0.984	20.97	-25.03	46.00	10.60	0.26	10.11	Average
3	1.698	33.96	-22.04	56.00	23.49	0.28	10.19	QP
4	1.698	22.66	-23.34	46.00	12.19	0.28	10.19	Average
5	1.939	34.69	-21.31	56.00	24.20	0.28	10.21	QP
6	1.939	22.09	-23.91	46.00	11.60	0.28	10.21	Average
7	2.309	34.10	-21.90	56.00	23.61	0.29	10.20	QP
8	2.309	22.70	-23.30	46.00	12.21	0.29	10.20	Average
9	2.622	34.30	-21.70	56.00	23.80	0.31	10.19	QP
10	2.622	22.80	-23.20	46.00	12.30	0.31	10.19	Average
11	3.436	34.11	-21.89	56.00	23.60	0.33	10.18	QP
12	3.436	23.11	-22.89	46.00	12.60	0.33	10.18	Average



Test Engineer :	Amos Zhang	Temperature :	29.3~29.6°C
		Relative Humidity :	54~59%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



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

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	1.191	35.65	-20.35	56.00	25.21	0.31	10.13	QP
2	1.191	21.05	-24.95	46.00	10.61	0.31	10.13	Average
3	2.309	37.13	-18.87	56.00	26.61	0.32	10.20	QP
4	2.309	22.03	-23.97	46.00	11.51	0.32	10.20	Average
5	2.931	36.02	-19.98	56.00	25.50	0.33	10.19	QP
6	2.931	22.72	-23.28	46.00	12.20	0.33	10.19	Average
7 *	3.681	38.20	-17.80	56.00	27.70	0.33	10.17	QP
8	3.681	23.10	-22.90	46.00	12.60	0.33	10.17	Average
9	20.814	39.25	-20.75	60.00	28.60	0.15	10.50	QP
10	20.814	26.55	-23.45	50.00	15.90	0.15	10.50	Average
11	22.298	38.24	-21.76	60.00	27.50	0.21	10.53	QP
12	22.298	26.04	-23.96	50.00	15.30	0.21	10.53	Average



Appendix C. Radiated Spurious Emission

U-NII-1 - 5150~5250MHz

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 36 5180MHz		5130.56	49.91	-24.09	74	42.61	34.27	8.15	35.12	339	42	P	H
		5140.16	39.71	-14.29	54	32.38	34.3	8.15	35.12	339	42	A	H
	*	5182	95.48	-	-	88.07	34.37	8.16	35.12	339	42	P	H
		5182	88.18	-	-	80.77	34.37	8.16	35.12	339	42	A	H
		5139.04	49.44	-24.56	74	42.14	34.27	8.15	35.12	108	81	P	V
		5150	39.92	-14.08	54	32.59	34.3	8.15	35.12	108	81	A	V
	*	5182	97.52	-	-	90.11	34.37	8.16	35.12	108	81	P	V
		5182	89.84	-	-	82.43	34.37	8.16	35.12	108	81	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for channels 36, 44, and 48 at frequencies 10360, 10440, and 10480 MHz.



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

Table with 14 columns: 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). Rows include test results for 802.11n HT20 CH 36 5180MHz and a Remark section.



U-NII-1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for 802.11n HT20 channels 36, 44, and 48.



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

Table with 14 columns: 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). Rows include frequencies like 5125.44, 5150, 5186, 5380.74, 5395.5, 5120.64, 5148.64, 5192, 5368.86, 5378.04.

Remark

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



U-NII-1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for 802.11n HT40 CH 38 5190MHz and CH 46 5230MHz, plus a Remark section.



U-NII-2A - 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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 64 5320MHz	*	5322	96.1	-	-	88.4	34.6	8.25	35.15	290	47	P	H
	*	5322	88.12	-	-	80.42	34.6	8.25	35.15	290	47	A	H
		5363.9	48.78	-25.22	74	41.02	34.63	8.28	35.15	290	47	P	H
		5351.5	39.95	-14.05	54	32.22	34.6	8.28	35.15	290	47	A	H
	*	5322	98.57	-	-	90.87	34.6	8.25	35.15	100	78	P	V
	*	5322	89.87	-	-	82.17	34.6	8.25	35.15	100	78	A	V
		5363.8	49.39	-24.61	74	41.63	34.63	8.28	35.15	100	78	P	V
		5351.4	40.53	-13.47	54	32.8	34.6	8.28	35.15	100	78	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz

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 52 5260MHz		10520	41.73	-26.57	68.3	58.21	37.73	11.83	66.04	100	0	P	H
		10520	41.25	-27.05	68.3	57.73	37.73	11.83	66.04	100	0	P	V
802.11a CH 60 5300MHz		10600	42.08	-31.92	74	58.27	37.9	11.89	65.98	100	0	P	H
		10600	42.11	-31.89	74	58.3	37.9	11.89	65.98	100	0	P	V
802.11a CH 64 5320MHz		10640	42.99	-31.01	74	59.13	37.9	11.92	65.96	100	0	P	H
		10640	42.02	-31.98	74	58.16	37.9	11.92	65.96	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: 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). Rows include test results for 802.11n HT20 CH 64 5320MHz and a Remark section.



U-NII-2A 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for channels 52, 60, and 64 at various frequencies (10520, 10600, 10640 MHz).



**U-NII-2A 5250~5350MHz
WIFI 802.11n HT40 (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 HT40 CH 62 5310MHz		5103.52	48.25	-25.75	74	41.01	34.2	8.15	35.11	300	41	P	H
		5116.64	39.6	-14.4	54	32.34	34.23	8.15	35.12	300	41	A	H
	*	5306	88.06	-	-	80.38	34.6	8.23	35.15	300	41	P	H
		5306	80.63	-	-	72.95	34.6	8.23	35.15	300	41	A	H
		5354.4	52.02	-21.98	74	44.29	34.6	8.28	35.15	300	41	P	H
		5356	39.53	-14.47	54	31.8	34.6	8.28	35.15	300	41	A	H
		5136.32	48.44	-25.56	74	41.14	34.27	8.15	35.12	110	88	P	V
		5103.2	39.67	-14.33	54	32.43	34.2	8.15	35.11	110	88	A	V
	*	5306	91.58	-	-	83.9	34.6	8.23	35.15	110	88	P	V
		5306	84.09	-	-	76.41	34.6	8.23	35.15	110	88	A	V
		5352.7	51.04	-22.96	74	43.31	34.6	8.28	35.15	110	88	P	V
		5350.6	39.7	-14.3	54	31.97	34.6	8.28	35.15	110	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for 802.11n HT40 CH 54 and CH 62 at 10540MHz and 10620MHz.

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



U-NII-2C - 5470~5725MHz

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.64	50.21	-23.79	74	42.46	34.6	8.32	35.17	114	93	P	H
		5468.56	50.42	-17.88	68.3	42.67	34.6	8.32	35.17	114	93	P	H
		5457.84	40.22	-13.78	54	32.47	34.6	8.32	35.17	114	93	A	H
	*	5500	98.99	-	-	91.24	34.6	8.32	35.17	114	93	P	H
		5500	88.96	-	-	81.21	34.6	8.32	35.17	114	93	A	H
		5455.28	49.34	-24.66	74	41.59	34.6	8.32	35.17	247	360	P	V
		5467.28	48.42	-19.88	68.3	40.67	34.6	8.32	35.17	247	360	P	V
		5459.6	40.09	-13.91	54	32.34	34.6	8.32	35.17	247	360	A	V
	*	5500	99.67	-	-	91.92	34.6	8.32	35.17	247	360	P	V
		5500	92.84	-	-	85.09	34.6	8.32	35.17	247	360	A	V
802.11a CH 140 5700MHz	*	5698	98.77	-	-	90.94	34.6	8.4	35.17	284	84	P	H
		5698	91.49	-	-	83.66	34.6	8.4	35.17	284	84	A	H
		5727.08	49.09	-19.21	68.3	41.16	34.67	8.42	35.16	284	84	P	H
	*	5696	102.38	-	-	94.55	34.6	8.4	35.17	244	354	P	V
		5696	94.72	-	-	86.89	34.6	8.4	35.17	244	354	A	V
		5727.72	51.49	-16.81	68.3	43.56	34.67	8.42	35.16	244	354	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

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 100		11000	43.44	-30.56	74	58.83	38.1	12.21	65.7	100	0	P	H
5500MHz		11000	43.58	-30.42	74	58.97	38.1	12.21	65.7	100	0	P	V
802.11a CH 116		11160	41.9	-32.1	74	57.03	38.1	12.35	65.58	100	0	P	H
5580MHz		11160	43.55	-30.45	74	58.68	38.1	12.35	65.58	100	0	P	V
802.11a CH 140		11400	42.87	-31.13	74	57.56	38.2	12.52	65.41	100	0	P	H
5700MHz		11400	42.1	-31.9	74	56.79	38.2	12.52	65.41	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII-2C - 5470~5725MHz
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 HT20 CH 100 5500MHz		5442	49.46	-24.54	74	41.68	34.63	8.32	35.17	142	88	P	H
		5468.72	49.85	-18.45	68.3	42.1	34.6	8.32	35.17	142	88	P	H
		5459.44	40.02	-13.98	54	32.27	34.6	8.32	35.17	142	88	A	H
	*	5498	96.44	-	-	88.69	34.6	8.32	35.17	142	88	P	H
		5498	88.7	-	-	80.95	34.6	8.32	35.17	142	88	A	H
		5455.92	49.94	-24.06	74	42.19	34.6	8.32	35.17	310	3	P	V
		5462	48.3	-20	68.3	40.55	34.6	8.32	35.17	310	3	P	V
		5458.48	40.34	-13.66	54	32.59	34.6	8.32	35.17	310	3	A	V
	*	5496	98.61	-	-	90.86	34.6	8.32	35.17	310	3	P	V
	5496	90.96	-	-	83.21	34.6	8.32	35.17	310	3	A	V	
802.11n HT20 CH 140 5700MHz		5760.04	49.36	-18.94	68.3	41.33	34.73	8.45	35.15	100	85	P	H
	*	5698	96.17	-	-	88.34	34.6	8.4	35.17	100	85	P	H
		5698	88.86	-	-	81.03	34.6	8.4	35.17	100	85	A	H
		5731.24	49.75	-18.55	68.3	41.82	34.67	8.42	35.16	310	11	P	V
	*	5696	100.12	-	-	92.29	34.6	8.4	35.17	310	11	P	V
	5696	92.78	-	-	84.95	34.6	8.4	35.17	310	11	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test results for channels 100, 116, and 140.



**U-NII-2C - 5470~5725MHz
WIFI 802.11n HT40 (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 HT40 CH 102 5510MHz		5456.56	49.73	-24.27	74	41.98	34.6	8.32	35.17	306	42	P	H
		5462.96	52	-22	74	44.25	34.6	8.32	35.17	306	42	P	H
		5457.84	39.7	-14.3	54	31.95	34.6	8.32	35.17	306	42	A	H
	*	5514	93.06	-	-	85.34	34.57	8.33	35.18	306	42	P	H
		5514	85.57	-	-	77.85	34.57	8.33	35.18	306	42	A	H
		5747.64	48.73	-19.57	68.3	40.73	34.7	8.45	35.15	299	12	P	H
		5455.92	48.82	-25.18	74	41.07	34.6	8.32	35.17	299	12	P	V
		5467.28	49.7	-18.6	68.3	41.95	34.6	8.32	35.17	299	12	P	V
		5458.96	40.2	-13.8	54	32.45	34.6	8.32	35.17	299	12	A	V
	*	5516	95.53	-	-	87.81	34.57	8.33	35.18	299	12	P	V
		5516	88.21	-	-	80.49	34.57	8.33	35.18	299	12	A	V
		5756.84	48.75	-19.55	68.3	40.72	34.73	8.45	35.15	299	12	P	V
802.11n HT40 CH 134 5670MHz		5459.12	50.51	-23.49	74	42.76	34.6	8.32	35.17	315	50	P	H
		5462.16	48.27	-20.03	68.3	40.52	34.6	8.32	35.17	299	11	P	H
		5456.56	39.79	-14.21	54	32.04	34.6	8.32	35.17	315	50	A	H
	*	5678	92.76	-	-	84.95	34.6	8.4	35.19	315	50	P	H
		5678	85.76	-	-	77.95	34.6	8.4	35.19	315	50	A	H
		5739	50.76	-23.24	74	42.76	34.7	8.45	35.15	315	50	P	H
		5446.16	48.22	-25.78	74	40.47	34.6	8.32	35.17	299	11	P	V
		5465.04	48.27	-20.03	68.3	40.52	34.6	8.32	35.17	299	11	P	V
		5455.12	39.67	-14.33	54	31.92	34.6	8.32	35.17	299	11	A	V
	*	5672	97.09	-	-	89.28	34.6	8.4	35.19	299	11	P	V
	5672	89.43	-	-	81.62	34.6	8.4	35.19	299	11	A	V	
	5731.4	51.84	-16.46	68.3	43.91	34.67	8.42	35.16	299	11	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 102, 110, and 134.



U-NII-2C - 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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5722	98.26	-	-	90.33	34.67	8.42	35.16	132	93	P	H
		5722	90.4	-	-	82.47	34.67	8.42	35.16	132	93	A	H
	*	5722	100.68	-	-	92.75	34.67	8.42	35.16	108	273	P	V
		5722	93.21	-	-	85.28	34.67	8.42	35.16	108	273	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant., 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). Contains two data rows for 802.11a CH 144 and a Remark section.



U-NII-2C - Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: 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). Rows include 802.11n HT20 and CH 144 5720MHz with various test results.

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



U-NII-2C - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test data for 802.11n HT20 CH 144 at 5720MHz and a Remark section.



U-NII-2C - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: 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). Rows include 802.11n HT40 and CH 142 5710MHz with various test results.

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



U-NII-2C - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test data for 802.11n HT40 CH 142 at 5710MHz and a Remark section.



Emission below 1GHz
WIFI 802.11n HT40 (LF @ 3m)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Cable, Preamp, Ant, Table, Peak, Pol. It contains 12 rows of test data for 802.11n HT40 LF and a Remark section at the bottom.



Radiated Spurious Emission Test Modes for 802.11ac

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	36	5180	MCS0	-	-
Mode 2	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	44	5220	MCS0	-	-
Mode 3	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	48	5240	MCS0	-	-
Mode 4	U-NII-2A	5.25-5.35	SISO	802.11ac VHT20	52	5260	MCS0	-	-
Mode 5	U-NII-2A	5.25-5.35	SISO	802.11ac VHT20	60	5300	MCS0	-	-
Mode 6	U-NII-2A	5.25-5.35	SISO	802.11ac VHT20	64	5320	MCS0	-	-
Mode 7	U-NII-2C	5.47-5.725	SISO	802.11ac VHT20	100	5500	MCS0	-	-
Mode 8	U-NII-2C	5.47-5.725	SISO	802.11ac VHT20	116	5580	MCS0	-	-
Mode 9	U-NII-2C	5.47-5.725	SISO	802.11ac VHT20	140	5700	MCS0	-	-
Mode 10	U-NII-1	5.15-5.25	SISO	802.11ac VHT40	38	5190	MCS0	-	-
Mode 11	U-NII-1	5.15-5.25	SISO	802.11ac VHT40	46	5230	MCS0	-	-
Mode 12	U-NII-2A	5.25-5.35	SISO	802.11ac VHT40	54	5270	MCS0	-	-
Mode 13	U-NII-2A	5.25-5.35	SISO	802.11ac VHT40	62	5310	MCS0	-	-
Mode 14	U-NII-2C	5.47-5.725	SISO	802.11ac VHT40	102	5510	MCS0	-	-
Mode 15	U-NII-2C	5.47-5.725	SISO	802.11ac VHT40	110	5550	MCS0	-	-
Mode 16	U-NII-2C	5.47-5.725	SISO	802.11ac VHT40	134	5670	MCS0	-	-
Mode 22	U-NII-2C	5.725-5.85	SISO	802.11ac VHT20	144	5720	MCS0	-	-
Mode 23	U-NII-2C	5.725-5.85	SISO	802.11ac VHT40	142	5710	MCS0	-	-
Mode 24	U-NII-1	5.15-5.25	SISO	802.11ac VHT80	42	5210	MCS0	-	-
Mode 25	U-NII-2A	5.25-5.35	SISO	802.11ac VHT80	58	5290	MCS0	-	-
Mode 26	U-NII-2C	5.47-5.725	SISO	802.11ac VHT80	106	5530	MCS0	-	-
Mode 27	U-NII-2C	5.47-5.725	SISO	802.11ac VHT80	122	5610	MCS0	-	-
Mode 28	U-NII-2C	5.47-5.725	SISO	802.11ac VHT80	138	5690	MCS0	-	-
Mode 30	U-NII-1	5.15-5.25	SISO	802.11ac VHT80	42	5210	MCS0	-	-
Part 27F LTE B13-M-Channel								-	-



Summary of each worse mode for 802.11ac

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ac VHT20	36	5001.62	46.09	54.00	-7.91	H	AVERAGE	Pass	Band Edge
2	802.11ac VHT20	44	10440.00	43.47	68.30	-24.83	H	PEAK	Pass	Harmonic
3	802.11ac VHT20	48	10480.00	43.54	68.30	-24.76	V	PEAK	Pass	Harmonic
4	802.11ac VHT20	52	10520.00	43.22	68.30	-25.08	V	PEAK	Pass	Harmonic
5	802.11ac VHT20	60	10600.00	43.91	74.00	-30.09	V	PEAK	Pass	Harmonic
6	802.11ac VHT20	64	5460.00	45.15	54.00	-8.85	V	AVERAGE	Pass	Band Edge
7	802.11ac VHT20	100	5459.05	45.33	54.00	-8.67	H	AVERAGE	Pass	Band Edge
8	802.11ac VHT20	116	11160.00	44.30	74.00	-29.70	H	PEAK	Pass	Harmonic
9	802.11ac VHT20	140	5732.05	55.68	68.30	-12.62	H	PEAK	Pass	Band Edge
10	802.11ac VHT40	38	5014.63	46.42	54.00	-7.58	H	AVERAGE	Pass	Band Edge
11	802.11ac VHT40	46	10460.00	43.78	68.30	-24.52	H	PEAK	Pass	Harmonic
12	802.11ac VHT40	54	10540.00	43.09	68.30	-25.21	H	PEAK	Pass	Harmonic
13	802.11ac VHT40	62	5009.61	46.28	54.00	-7.72	H	AVERAGE	Pass	Band Edge
14	802.11ac VHT40	102	5457.84	45.92	54.00	-8.08	H	AVERAGE	Pass	Band Edge
15	802.11ac VHT40	110	11100.00	43.58	74.00	-30.42	V	PEAK	Pass	Harmonic
16	802.11ac VHT40	134	5455.92	45.87	54.00	-8.13	H	AVERAGE	Pass	Band Edge
22	802.11ac VHT20	144	11440.00	43.26	74.00	-30.74	H	PEAK	Pass	Harmonic
23	802.11ac VHT40	142	11420.00	42.79	74.00	-31.21	V	PEAK	Pass	Harmonic
24	802.11ac VHT80	42	5140.70	47.01	54.00	-6.99	H	AVERAGE	Pass	Band Edge
25	802.11ac VHT80	58	5047.56	46.54	54.00	-7.46	V	AVERAGE	Pass	Band Edge
26	802.11ac VHT80	106	5448.46	46.75	54.00	-7.25	H	AVERAGE	Pass	Band Edge
27	802.11ac VHT80	122	5457.64	46.21	54.00	-7.79	H	AVERAGE	Pass	Band Edge



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
28	802.11ac VHT80	138	11380.00	43.17	74.00	-30.83	H	PEAK	Pass	Harmonic
Mode 30	802.11ac VHT80	42	5117.39	47.29	54.00	-6.71	V	AVERAGE	Pass	Band Edge
	Part 27F LTE B13-M-Channel								-	-



		1																																																																									
Mode	Band Edge																																																																										
	U-NII-1_5.15-5.25_802.11ac VHT20_CH36_5180MHz																																																																										
ANT	SISO																																																																										
Pol.	Horizontal	Fundamental																																																																									
Peak	<table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5002.70</td> <td>55.74</td> <td>74.00</td> <td>-18.26</td> <td>42.63</td> <td>34.24</td> <td>10.49</td> <td>31.62</td> <td>0.00</td> <td>100</td> <td>39</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	5002.70	55.74	74.00	-18.26	42.63	34.24	10.49	31.62	0.00	100	39	PEAK	<table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5180.00</td> <td>91.26</td> <td>-----</td> <td>77.72</td> <td>34.37</td> <td>10.69</td> <td>31.52</td> <td>0.00</td> <td>100</td> <td>39</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	5180.00	91.26	-----	77.72	34.37	10.69	31.52	0.00	100	39	PEAK
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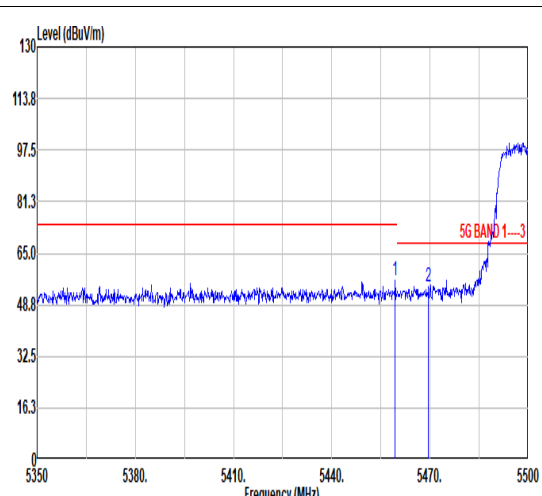
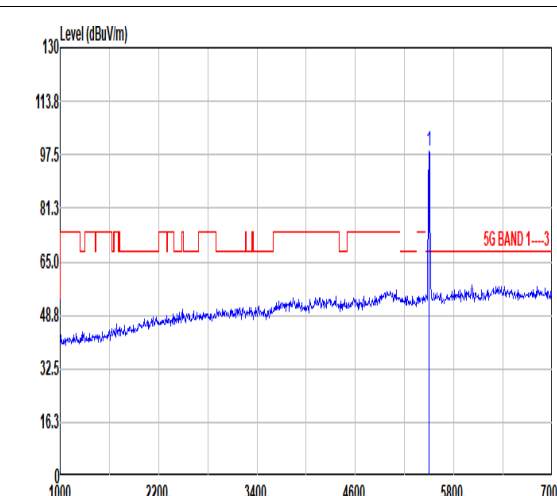
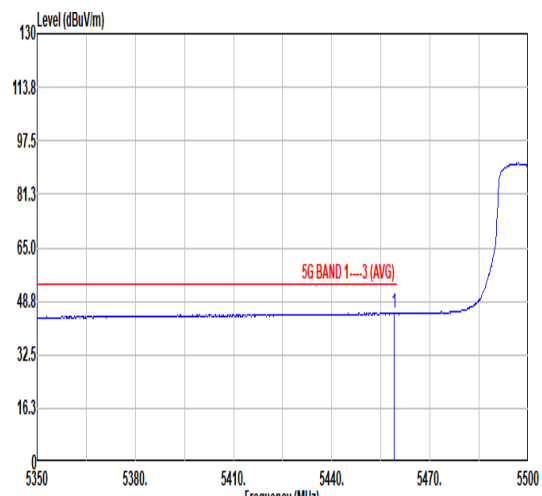
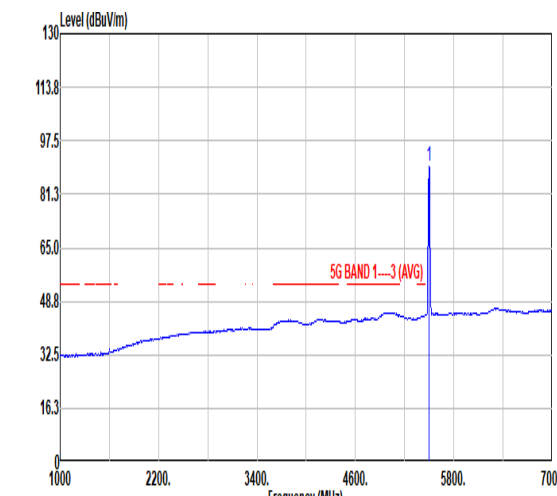


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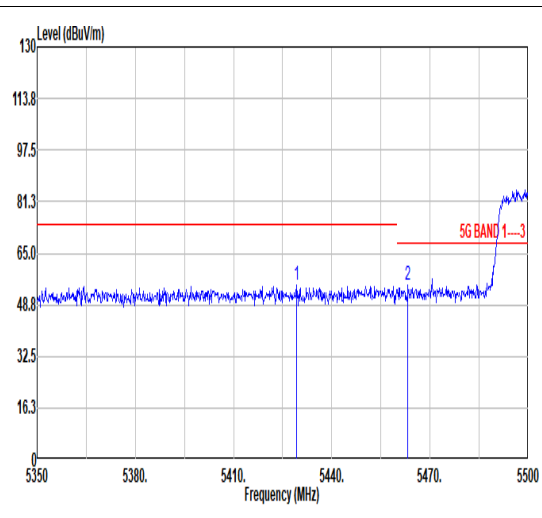
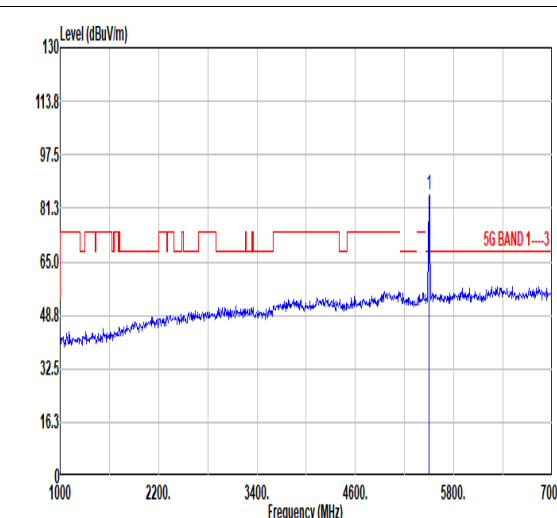
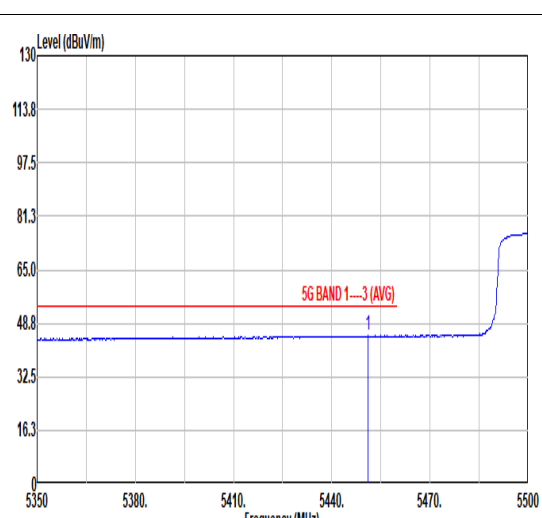
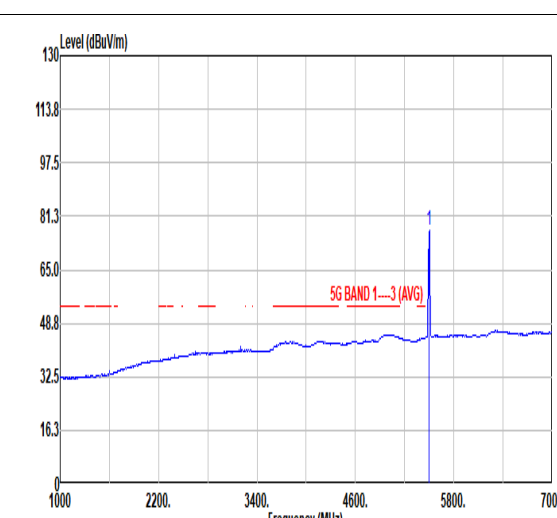


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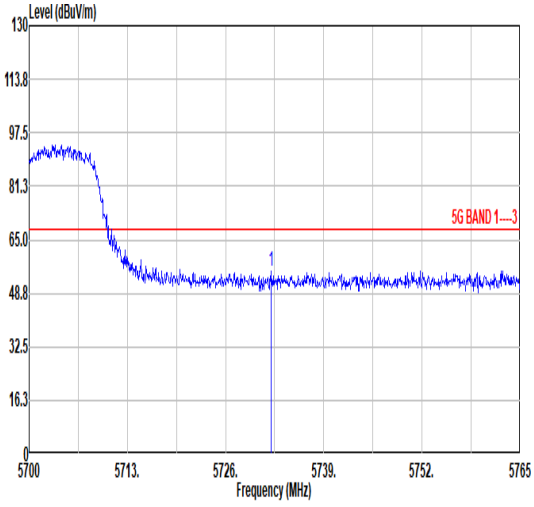
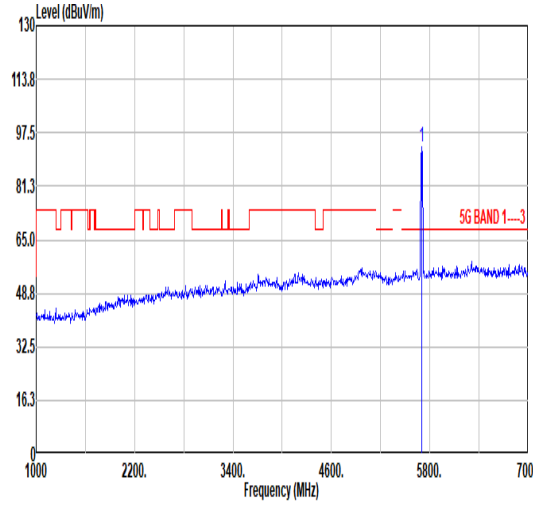
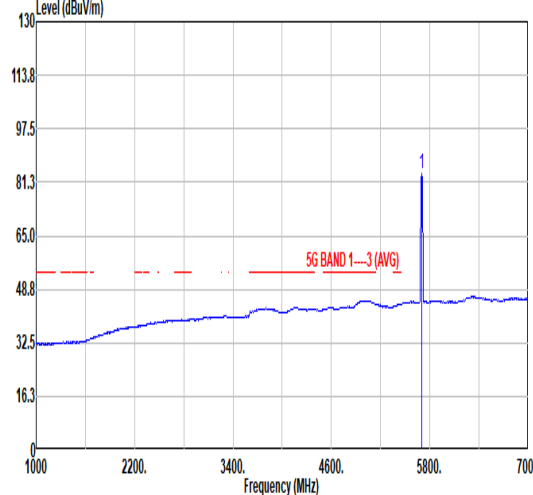


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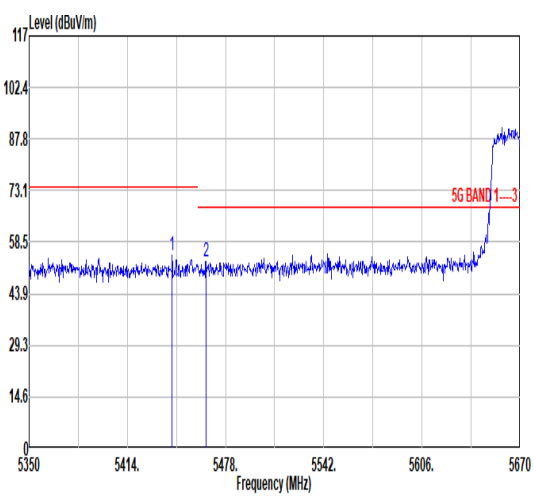
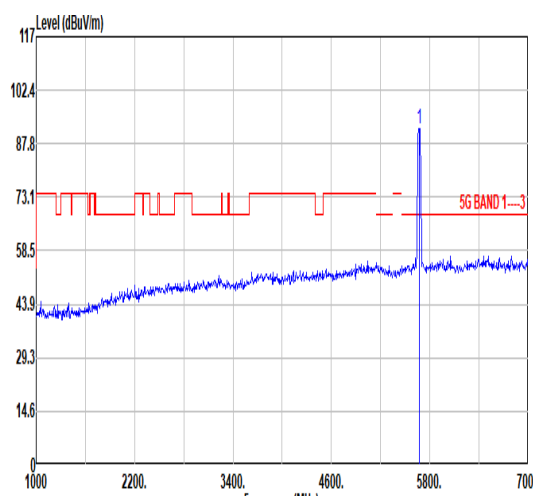
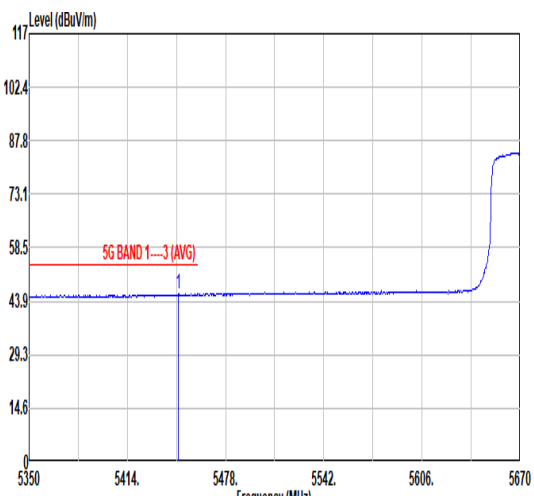
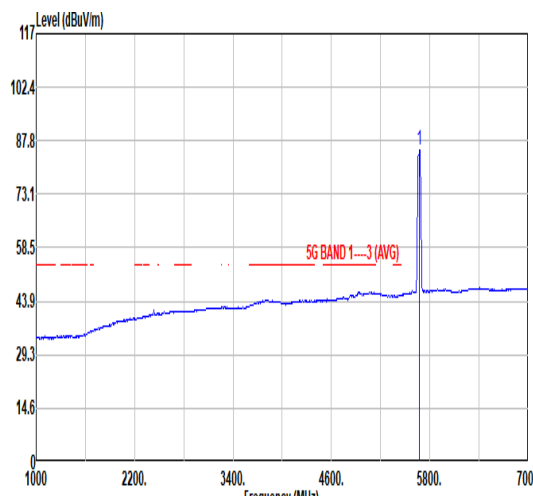


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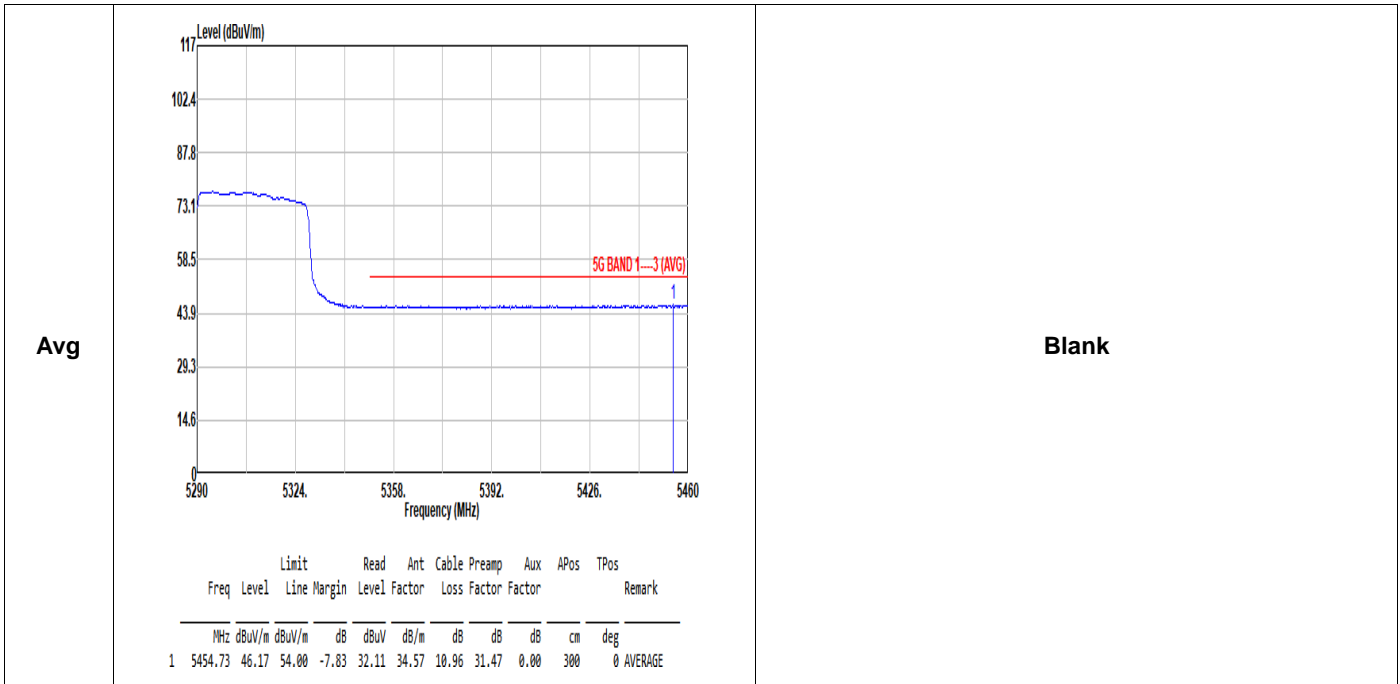
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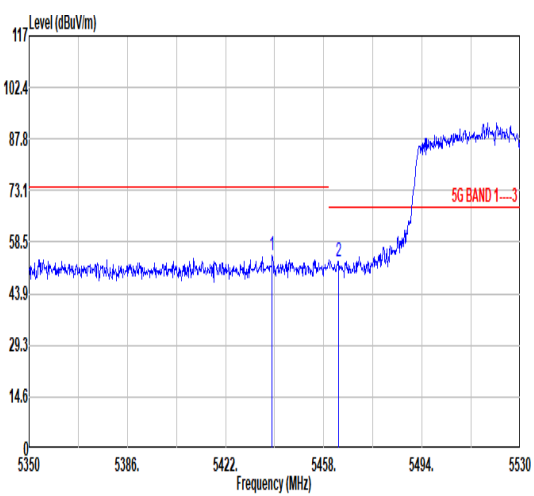
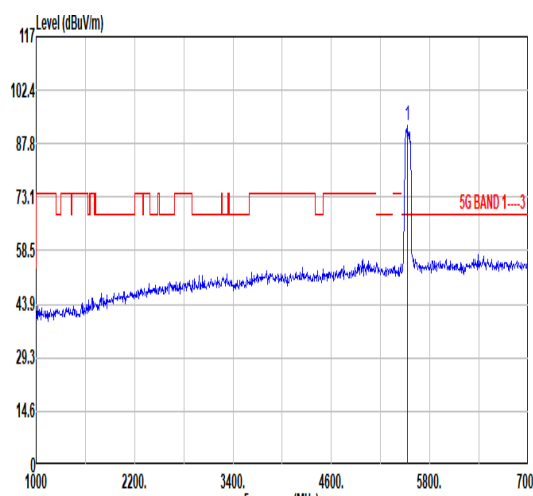
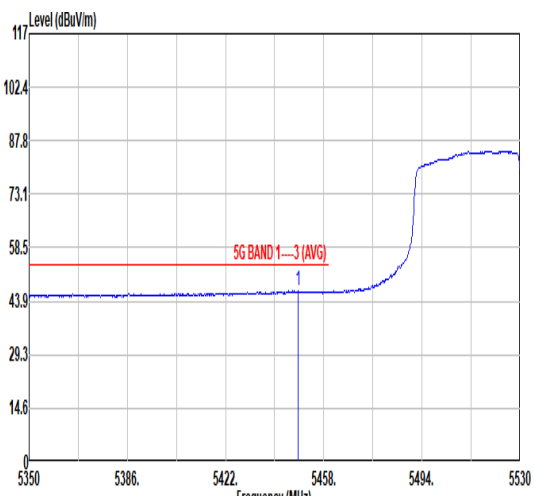
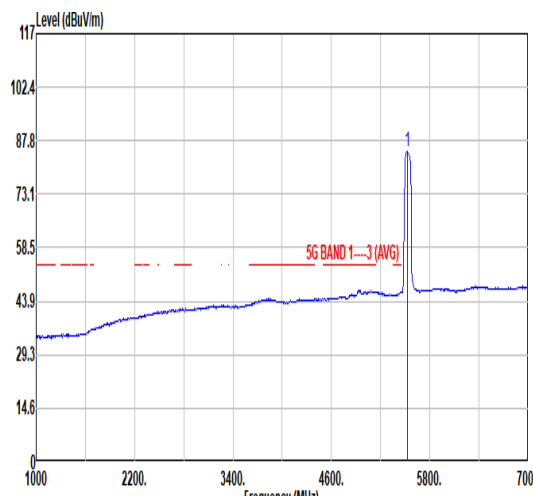


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Note symbol

*	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		(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)

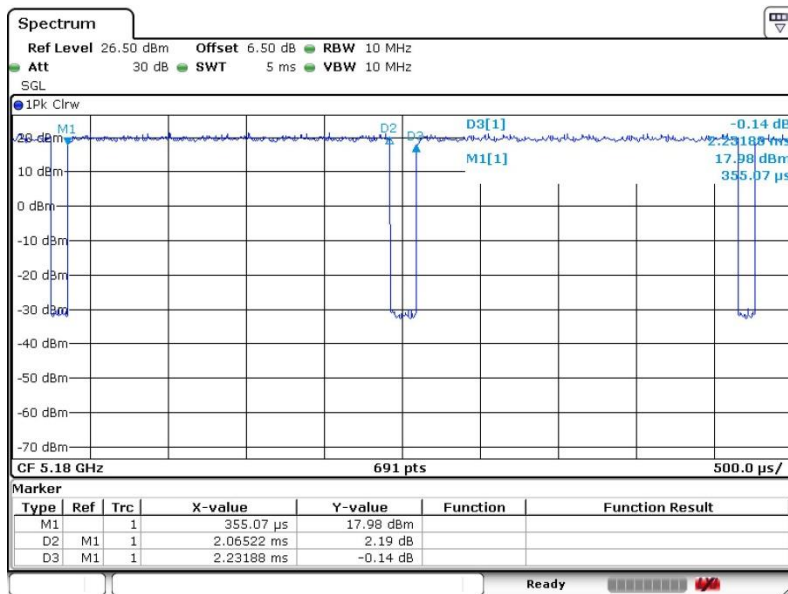
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

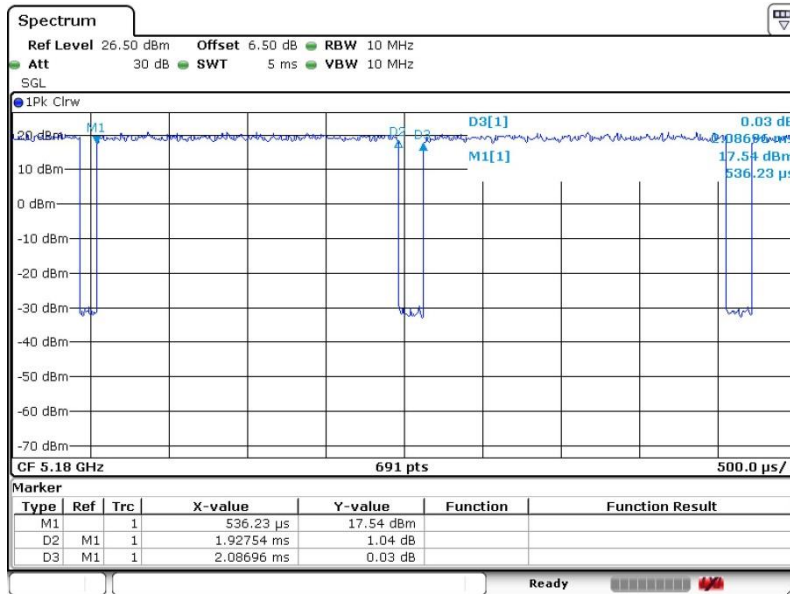
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	92.53	2.065	0.484	0.51kHz
802.11n HT20	92.36	1.928	0.519	0.56kHz
802.11n HT40	89.73	0.949	1.053	1.10kHz
802.11ac VHT20	94.32	1.928	0.519	0.56kHz
802.11ac VHT40	91.03	0.957	1.045	1.1kHz
802.11ac VHT80	82.78	0.467	2.143	2.2kHz

802.11a

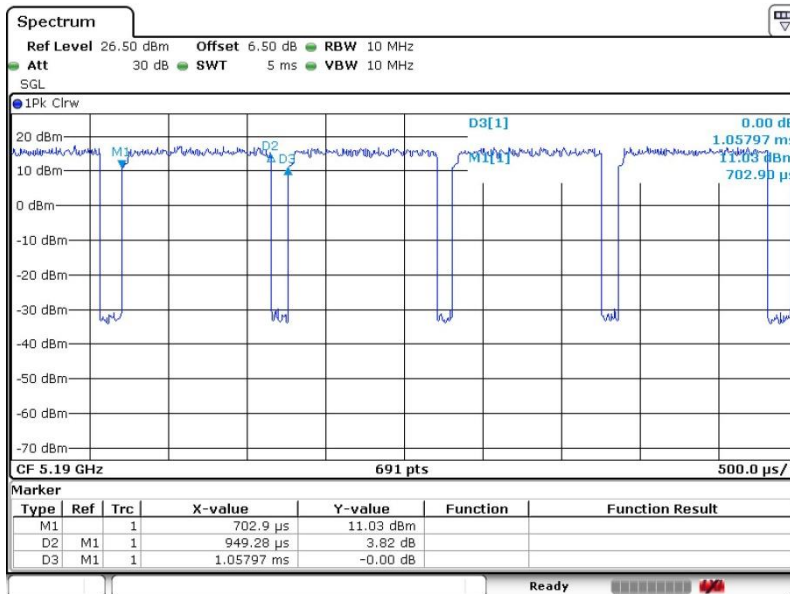




802.11n HT20

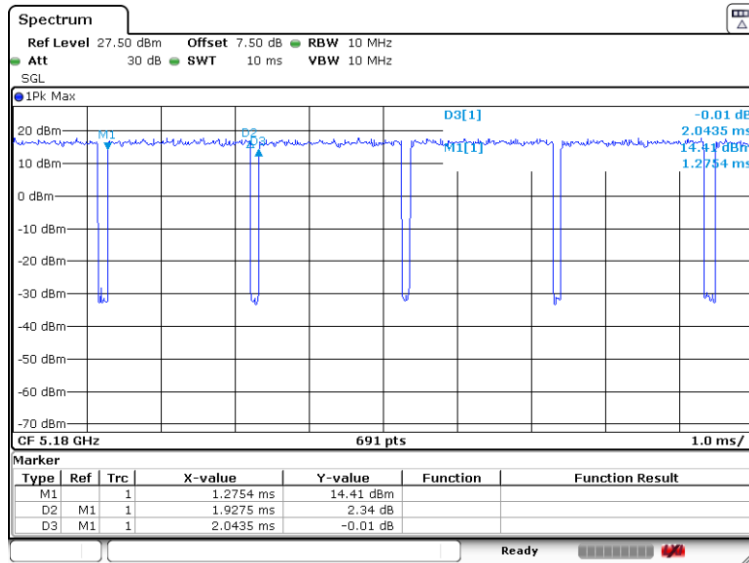


802.11n HT40

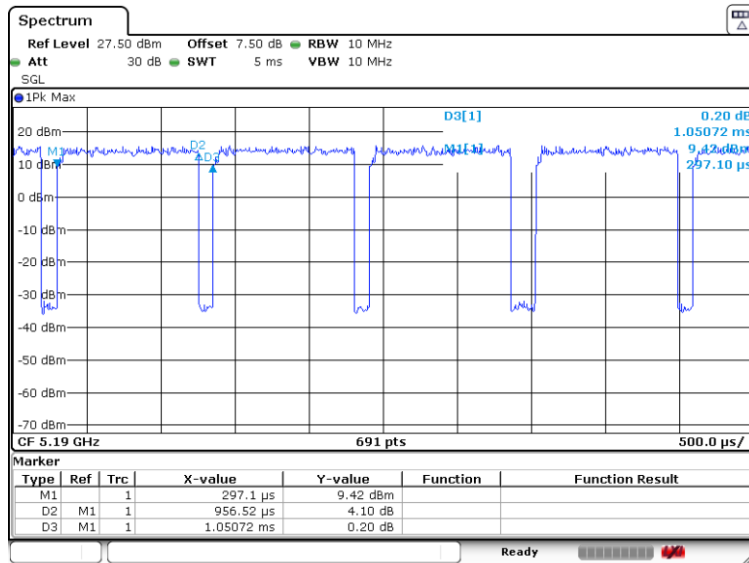




802.11ac VHT20



802.11ac VHT40





802.11ac VHT80

