



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : XIAOMI
MODEL NAME : 2107113SG
FCC ID : 2AFZZ113SG
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : May 28, 2021 ~ Jun. 17, 2021

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.

Reviewed by: Jason Jia / Supervisor

Approved by: Alex Wang / Manager



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	N/A	Report only
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.02 dB at 5146.560 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.46 dB at 0.152 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	N/A	-

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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	XIAOMI
Model Name	2107113SG
FCC ID	2AFZZ113SG
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n/ax HT20/HT40/HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR / EDR / LE NFC and GNSS
IMEI Code	Conducted: 868253050049325/868253050049300 Conduction: 868253050044789/868253050044797 Radiation: 868253050048343/868253050048350
HW Version	P2
SW Version	MIUI12.5
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	<p>MIMO <Ant.1+2></p> <p><5180 MHz ~ 5240 MHz> 802.11a : 20.90 dBm / 0.1230 W 802.11n HT20 : 21.14 dBm / 0.1300 W 802.11n HT40 : 21.30 dBm / 0.1349 W 802.11ac VHT20 : 21.05 dBm / 0.1274 W 802.11ac VHT40 : 21.09 dBm / 0.1285 W 802.11ac VHT80 : 18.39 dBm / 0.0690 W 802.11ac VHT160 : 18.24 dBm / 0.0667 W 802.11ax HE20 : 21.33 dBm / 0.1358 W 802.11ax HE40 : 21.36 dBm / 0.1368 W 802.11ax HE80 : 18.45 dBm / 0.0700 W 802.11ax HE160 : 18.29 dBm / 0.0675 W</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 21.30 dBm / 0.1349 W 802.11n HT20 : 21.65 dBm / 0.1462 W 802.11n HT40 : 21.72 dBm / 0.1486 W 802.11ac VHT20 : 21.49 dBm / 0.1409 W 802.11ac VHT40 : 21.58 dBm / 0.1439 W 802.11ac VHT80 : 19.06 dBm / 0.0805 W 802.11ax HE20 : 21.79 dBm / 0.1510 W 802.11ax HE40 : 21.84 dBm / 0.1528 W 802.11ax HE80 : 19.12 dBm / 0.0817 W</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 19.72 dBm / 0.0938 W 802.11n HT20 : 19.55 dBm / 0.0902 W 802.11n HT40 : 20.01 dBm / 0.1002 W 802.11ac VHT20 : 19.52 dBm / 0.0895 W 802.11ac VHT40 : 19.86 dBm / 0.0968 W 802.11ac VHT80 : 19.64 dBm / 0.0920 W 802.11ac VHT160 : 18.02 dBm / 0.0634 W 802.11ax HE20 : 20.18 dBm / 0.1042 W 802.11ax HE40 : 20.27 dBm / 0.1064 W 802.11ax HE80 : 20.04 dBm / 0.1009 W 802.11ax HE160 : 18.08 dBm / 0.0643 W</p>
99% Occupied Bandwidth	<p><5180 MHz ~ 5240 MHz> 802.11a : 17.03 MHz 802.11ax HE20 : 19.38 MHz 802.11ax HE40 : 37.96 MHz 802.11ax HE80 : 77.32 MHz 802.11ax HE160 : 155.84 MHz</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 17.08 MHz 802.11ax HE20 : 19.48 MHz 802.11ax HE40 : 38.06 MHz 802.11ax HE80 : 77.20 MHz</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 16.98 MHz</p>



	802.11ax HE20 : 19.38 MHz 802.11ax HE40 : 37.96 MHz 802.11ax HE80 : 77.20 MHz 802.11ax HE160 : 155.84 MHz						
Antenna Type / Gain	<p><5150 MHz ~ 5250 MHz> <Ant. 1> : PIFA Antenna with gain 2.10 dBi <Ant. 2> : PIFA Antenna with gain -4.50 dBi</p> <p><5250 MHz ~ 5350 MHz> <Ant. 1> : PIFA Antenna with gain 2.40 dBi <Ant. 2> : PIFA Antenna with gain -6.40 dBi</p> <p><5470 MHz ~ 5725 MHz> <Ant. 1> : PIFA Antenna with gain 2.40 dBi <Ant. 2> : PIFA Antenna with gain -4.30 dBi</p>						
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac/ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)						
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a/n/ac/ax MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a/n/ac/ax MIMO	V	V
	Ant. 1	Ant. 2					
802.11 a/n/ac/ax MIMO	V	V					

Note:

1. For 802.11n HT20 / ac VHT20 / ax HE20 and 802.11n HT40 / ac VHT40 / ax HE40 mode, the whole testing have assessed only ax HE20 / HE40 by referring to their maximum conducted power.
2. For 802.11ac VHT80 / ax HE80 and 802.11ac HT160 / ax HE160 mode, the whole testing have assessed only ax HE80 / HE160 by referring to their maximum conducted power.

1.5 Modification of EUT

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



1.6 Testing Location

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

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

1.7 Test Software

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

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	50 ²	5250
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 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)
5470-5725 MHz U-NII-2C	100	5500	114 ²	5570
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560		



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 and 802.11ax HE40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel in "²ⁿ" were 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Co-location
WIFI 5G + WIF 2.4G + BT

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA 850 Idle + Bluetooth Link + WLAN Link(5G) + USB Cable 2(Charging from Adapter)
Remark: For Radiated Test Cases, the tests were performance with Adapter and USB Cable 1.	



Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

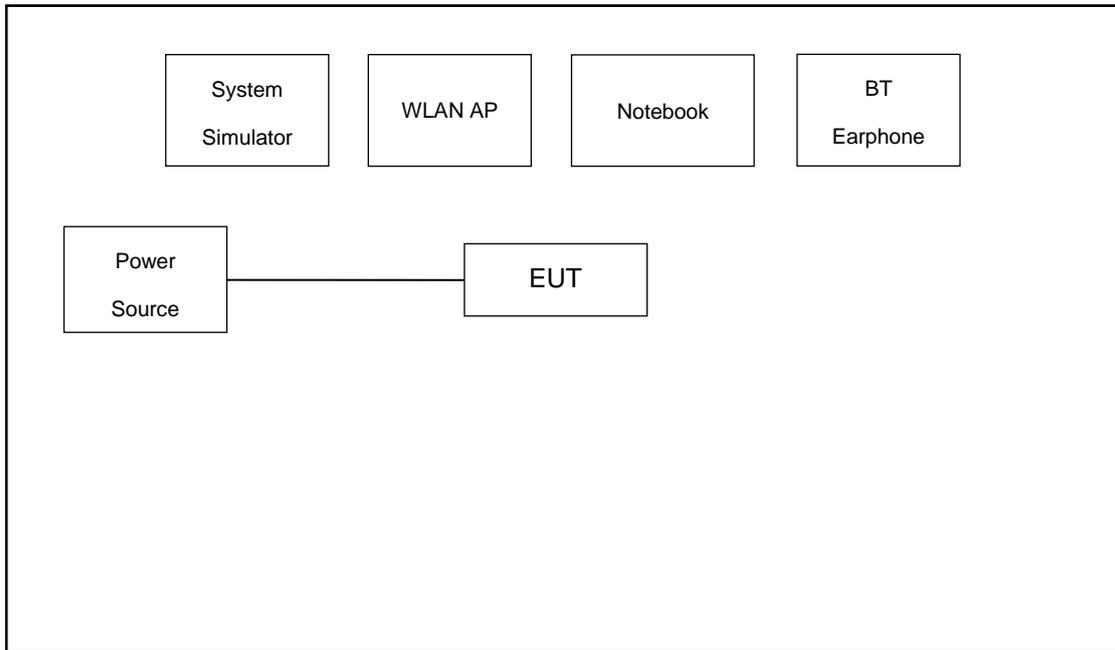
Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

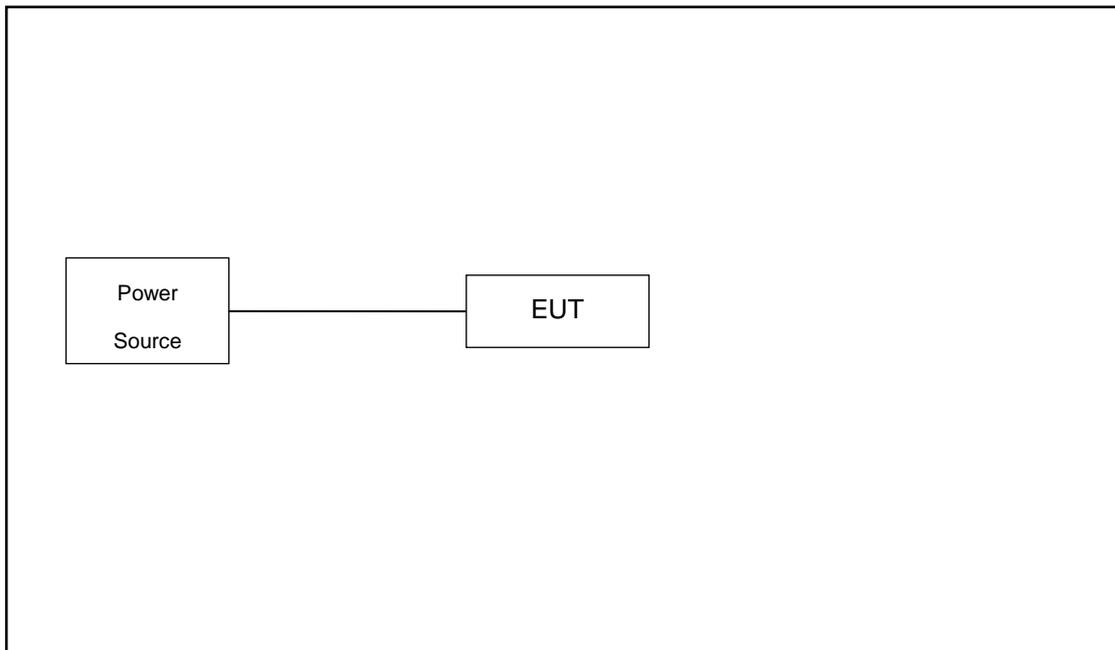
Ch. #		U-NII-1 : 5150-5250 MHz	U-NII-2A : 5250-5350 MHz	U-NII-2C : 5470-5725MHz
		802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	-	-	-
M	Middle	50	-	114
H	High	-	-	-
Straddle		-	-	-

2.3 Connection Diagram of Test System

For Conducted Emission:



For 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.	Base Station	Anritus	MT8821C	N/A	N/A	Unshielded, 1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.2 dB.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 7.2 \text{ (dB)}
 \end{aligned}$$

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.

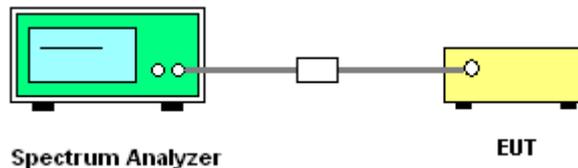
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

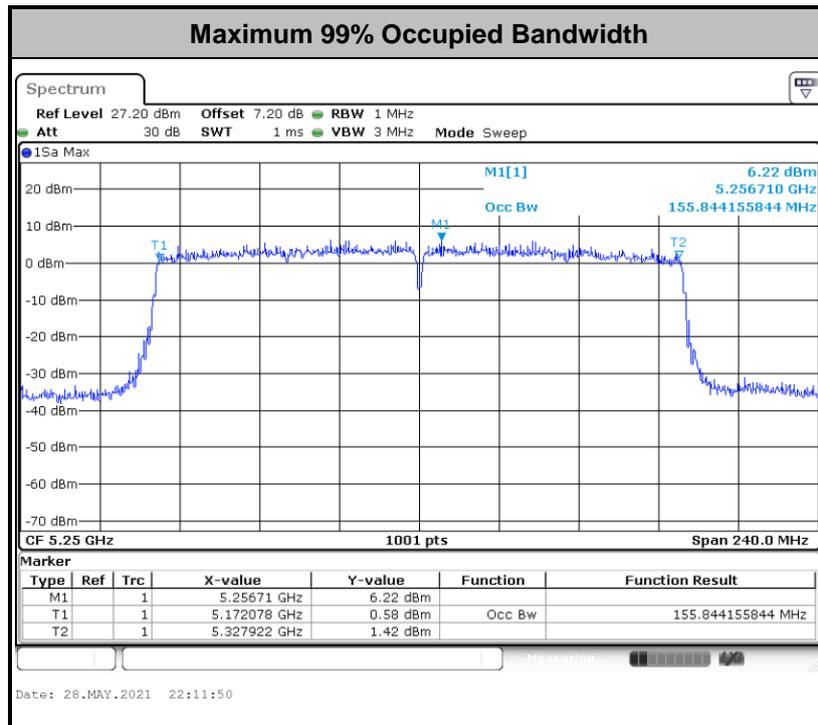
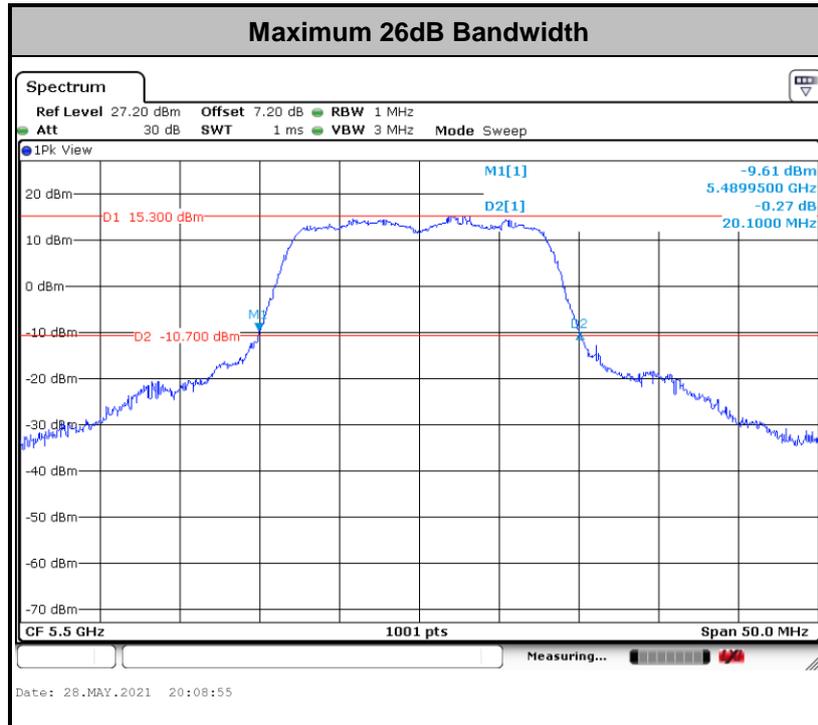
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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 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

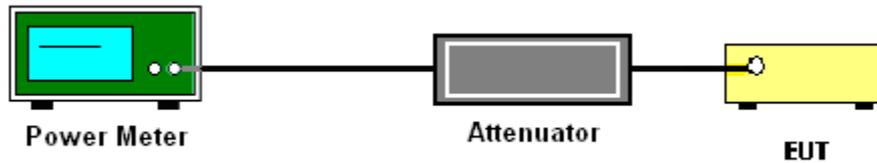
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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



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

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 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

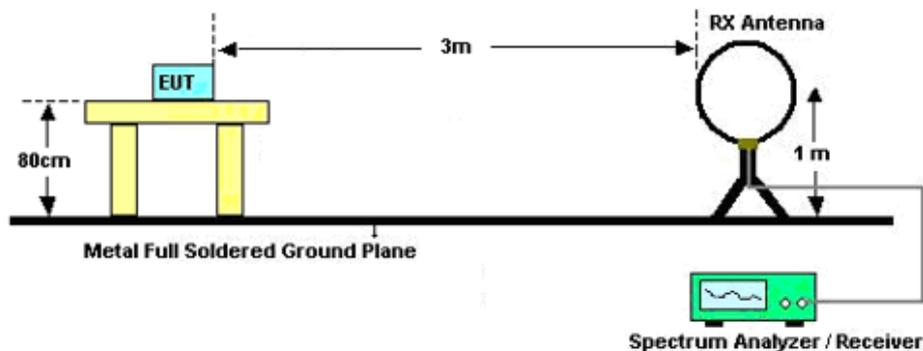
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

- 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.

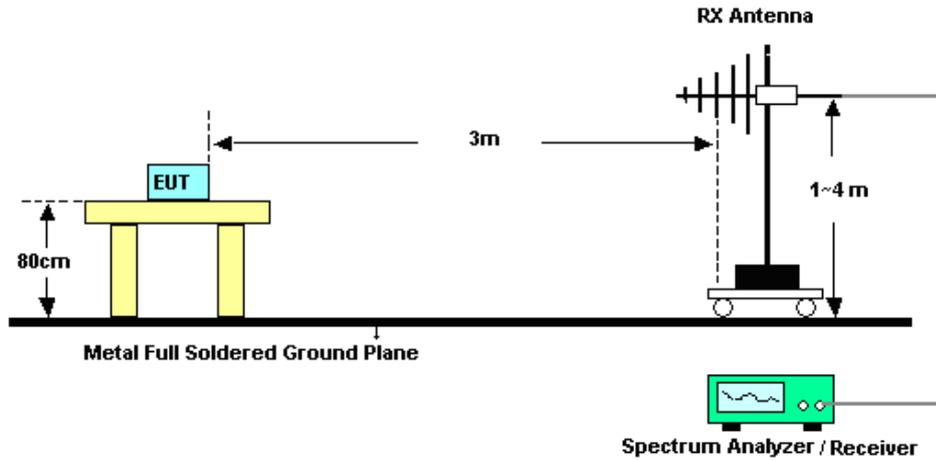
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both 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 peak 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

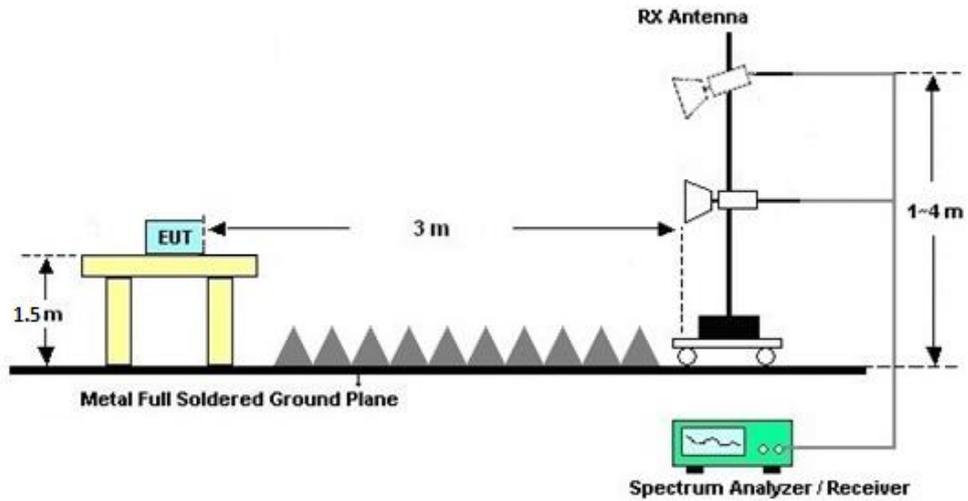
For radiated emissions below 30MHz



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 or 40GHz, whichever is lower)

Please refer to Appendix C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

*Decreases with the logarithm of the frequency.

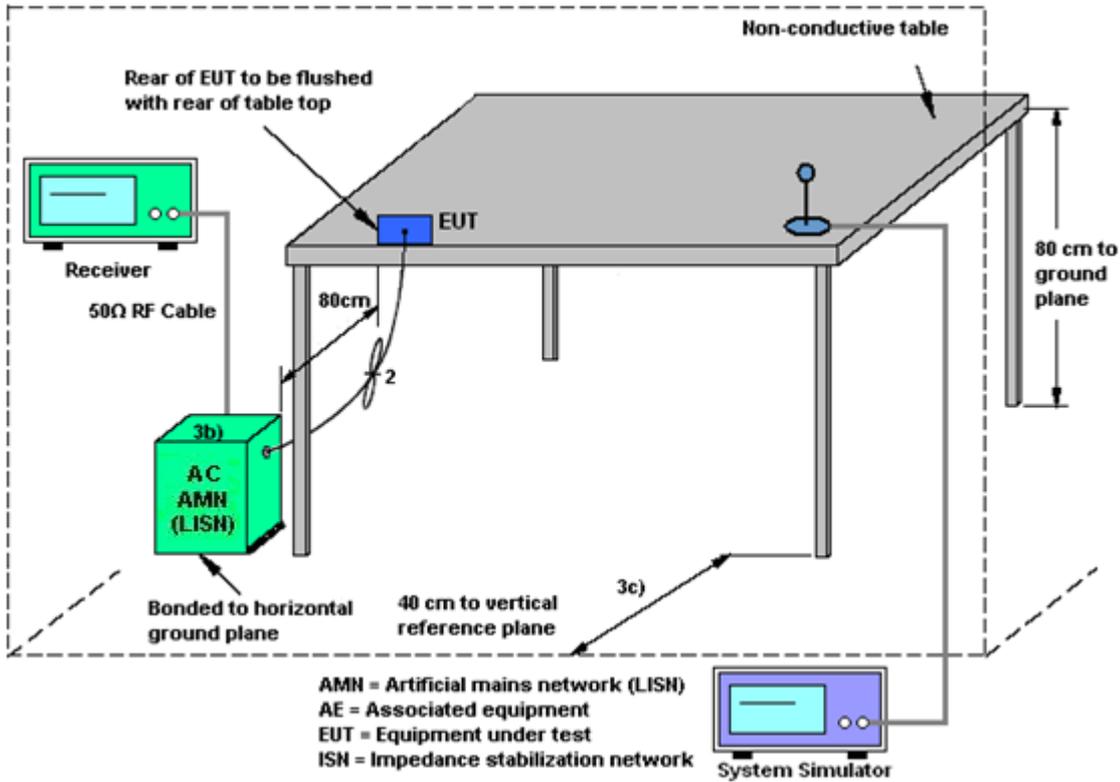
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

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

3.6.3 Test Result of Automatically Discontinue Transmission

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



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
	Ant. 1	Ant. 2	DG	DG	Power	PSD
	(dBi)	(dBi)	for	for	Limit	Limit
			Power	PSD	Reduction	Reduction
			(dBi)	(dBi)	(dB)	(dB)
Band I	2.10	-4.50	2.10	2.42	0.00	0.00
Band II	2.40	-6.40	2.40	2.08	0.00	0.00
Band III	2.40	-4.30	2.40	2.69	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	May 28, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	May 28, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	May 28, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 17, 2020	Jun. 17, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 12, 2021	Jun. 17, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Jun. 17, 2021	Oct. 31, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 28, 2021	Jun. 17, 2021	May 27, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Jun. 17, 2021	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Jun. 17, 2021	Nov. 09, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Jun. 17, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Jun. 17, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jun. 17, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	Jun. 17, 2021	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Jun. 04, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Jun. 04, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Jun. 04, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Jun. 04, 2021	Oct. 16, 2021	Conduction (CO01-KS)

NCR: No Calibration Required.



5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
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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))	5.0dB
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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))	5.0dB
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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))	5.0dB
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Appendix A. Conducted Test Results

Test Engineer:	Long Wu	Temperature:	21~25	°C
Test Date:	2021/5/28	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO													
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)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	16.93	17.03	21.00	20.80	-	-	22.29	-	
11a	6Mbps	2	44	5220	16.88	17.03	21.05	20.55	-	-	22.27	-	
11a	6Mbps	2	48	5240	16.93	16.98	20.95	20.75	-	-	22.29	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	18.09	17.47	20.81	24.00	2.10		Pass	
11a	6Mbps	2	44	5220	18.02	17.64	20.85	24.00	2.10		Pass	
11a	6Mbps	2	48	5240	18.12	17.63	20.90	24.00	2.10		Pass	
HT20	MCS0	2	36	5180	17.96	17.53	20.76	24.00	2.10		Pass	
HT20	MCS0	2	44	5220	18.22	17.94	21.09	24.00	2.10		Pass	
HT20	MCS0	2	48	5240	18.29	17.97	21.14	24.00	2.10		Pass	
HT40	MCS0	2	38	5190	15.96	16.01	19.00	24.00	2.10		Pass	
HT40	MCS0	2	46	5230	18.36	18.21	21.30	24.00	2.10		Pass	
VHT20	MCS0	2	36	5180	18.02	17.60	20.83	24.00	2.10		Pass	
VHT20	MCS0	2	44	5220	18.21	17.67	20.96	24.00	2.10		Pass	
VHT20	MCS0	2	48	5240	18.35	17.70	21.05	24.00	2.10		Pass	
VHT40	MCS0	2	38	5190	16.02	16.05	19.05	24.00	2.10		Pass	
VHT40	MCS0	2	46	5230	18.23	17.93	21.09	24.00	2.10		Pass	
VHT80	MCS0	2	42	5210	15.41	15.35	18.39	24.00	2.10		Pass	
VHT160	MCS0	2	50	5250	15.24	15.21	18.24	24.00	2.10		Pass	

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.04	0.04			9.59	11.00		2.42		Pass
11a	6Mbps	2	44	5220	0.04	0.04			9.54	11.00		2.42		Pass
11a	6Mbps	2	48	5240	0.04	0.04			9.37	11.00		2.42		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO															
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
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	17.03	17.08	21.30	21.65	23.31		29.31		23.98		
11a	6Mbps	2	60	5300	16.98	17.08	21.35	22.65	23.30		29.30		23.98		
11a	6Mbps	2	64	5320	17.03	17.08	21.35	20.80	23.31		29.31		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	18.63	17.92	21.30	23.98		2.40		30	Pass
11a	6Mbps	2	60	5300	18.54	18.00	21.29	23.98		2.40		30	Pass
11a	6Mbps	2	64	5320	18.45	18.05	21.27	23.98		2.40		30	Pass
HT20	MCS0	2	52	5260	18.85	18.35	21.62	23.98		2.40		30	Pass
HT20	MCS0	2	60	5300	18.92	18.27	21.62	23.98		2.40		30	Pass
HT20	MCS0	2	64	5320	18.93	18.33	21.65	23.98		2.40		30	Pass
HT40	MCS0	2	54	5270	18.92	18.48	21.72	23.98		2.40		30	Pass
HT40	MCS0	2	62	5310	16.61	16.55	19.59	23.98		2.40		30	Pass
VHT20	MCS0	2	52	5260	18.82	18.05	21.46	23.98		2.40		30	Pass
VHT20	MCS0	2	60	5300	18.80	17.98	21.42	23.98		2.40		30	Pass
VHT20	MCS0	2	64	5320	18.87	18.04	21.49	23.98		2.40		30	Pass
VHT40	MCS0	2	54	5270	18.80	18.33	21.58	23.98		2.40		30	Pass
VHT40	MCS0	2	62	5310	16.66	16.57	19.63	23.98		2.40		30	Pass
VHT80	MCS0	2	58	5290	16.18	15.92	19.06	23.98		2.40		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	0.04	0.04			9.89	11.00	2.08			Pass
11a	6Mbps	2	60	5300	0.04	0.04			9.99	11.00	2.08			Pass
11a	6Mbps	2	64	5320	0.04	0.04			9.91	11.00	2.08			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.98	16.98	20.85	20.10	23.30		29.30		23.98		----	----
11a	6Mbps	2	116	5580	16.88	16.98	20.85	20.25	23.27		29.27		23.98		----	----
11a	6Mbps	2	140	5700	16.98	16.98	20.85	20.15	23.30		29.30		23.98		----	----

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	16.98	16.98	20.80	20.20	23.30		29.30		23.98		-	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	16.54	16.42	19.50	23.98		2.40		30	Pass
11a	6Mbps	2	116	5580	17.01	16.37	19.72	23.98		2.40		30	Pass
11a	6Mbps	2	140	5700	16.86	16.23	19.57	23.98		2.40		30	Pass
HT20	MCS0	2	100	5500	16.34	16.37	19.37	23.98		2.40		30	Pass
HT20	MCS0	2	116	5580	16.67	16.40	19.55	23.98		2.40		30	Pass
HT20	MCS0	2	140	5700	16.71	16.26	19.50	23.98		2.40		30	Pass
HT40	MCS0	2	102	5510	16.70	16.85	19.79	23.98		2.40		30	Pass
HT40	MCS0	2	110	5550	16.65	16.90	19.79	23.98		2.40		30	Pass
HT40	MCS0	2	134	5670	16.84	16.67	19.77	23.98		2.40		30	Pass
VHT20	MCS0	2	100	5500	16.32	16.35	19.35	23.98		2.40		30	Pass
VHT20	MCS0	2	116	5580	16.40	16.42	19.42	23.98		2.40		30	Pass
VHT20	MCS0	2	140	5700	16.70	16.23	19.48	23.98		2.40		30	Pass
VHT40	MCS0	2	102	5510	16.65	16.63	19.65	23.98		2.40		30	Pass
VHT40	MCS0	2	110	5550	16.66	16.69	19.69	23.98		2.40		30	Pass
VHT40	MCS0	2	134	5670	16.64	16.47	19.57	23.98		2.40		30	Pass
VHT80	MCS0	2	106	5530	16.47	16.57	19.53	23.98		2.40		30	Pass
VHT80	MCS0	2	122	5610	16.49	16.49	19.50	23.98		2.40		30	Pass
VHT160	MCS0	2	114	5570	14.92	15.09	18.02	23.98		2.40		30	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	16.55	16.53	19.56	23.98		2.40		30	Pass
HT20	MCS0	2	144	5720	16.52	16.49	19.52	23.98		2.40		30	Pass
HT40	MCS0	2	142	5710	16.92	17.07	20.01	23.98		2.40		30	Pass
VHT20	MCS0	2	144	5720	16.46	16.55	19.52	23.98		2.40		30	Pass
VHT40	MCS0	2	142	5710	16.77	16.92	19.86	23.98		2.40		30	Pass
VHT80	MCS0	2	138	5690	16.68	16.58	19.64	23.98		2.40		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	0.04	0.04			8.49		11.00		2.69	Pass
11a	6Mbps	2	116	5580	0.04	0.04			8.43		11.00		2.69	Pass
11a	6Mbps	2	140	5700	0.04	0.04			8.56		11.00		2.69	Pass

U-NII-2C straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720	0.04	0.04			8.24		11.00		2.69	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	19.28	19.33	22.65	23.05	-	-	22.85	-	
HE20	MCS0	2	44	5220	Full	19.38	19.38	22.50	22.70	-	-	22.87	-	
HE20	MCS0	2	48	5240	Full	19.38	19.38	22.55	22.40	-	-	22.87	-	
HE40	MCS0	2	38	5190	Full	37.96	37.96	41.40	41.40	-	-	23.01	-	
HE40	MCS0	2	46	5230	Full	37.96	37.86	41.13	41.58	-	-	23.01	-	
HE80	MCS0	2	42	5210	Full	77.20	77.32	82.24	81.76	-	-	23.01	-	
HE160	MCS0	2	50	5250	Full	155.84	155.60	162.88	162.56	-	-	23.01	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	18.40	18.04	21.23	24.00		2.10		Pass
HE20	MCS0	2	36	5180	26/0	8.75	8.43	11.60	24.00		2.10		Pass
HE20	MCS0	2	36	5180	52/37	11.68	11.83	14.77	24.00		2.10		Pass
HE20	MCS0	2	36	5180	106/53	14.68	14.63	17.67	24.00		2.10		Pass
HE20	MCS0	2	44	5220	Full	18.40	18.07	21.25	24.00		2.10		Pass
HE20	MCS0	2	44	5220	26/4	9.79	9.22	12.52	24.00		2.10		Pass
HE20	MCS0	2	44	5220	52/39	11.75	11.23	14.51	24.00		2.10		Pass
HE20	MCS0	2	44	5220	106/53	14.84	14.25	17.57	24.00		2.10		Pass
HE20	MCS0	2	48	5240	Full	18.47	18.16	21.33	24.00		2.10		Pass
HE20	MCS0	2	48	5240	26/8	8.94	8.52	11.75	24.00		2.10		Pass
HE20	MCS0	2	48	5240	52/40	11.93	11.79	14.87	24.00		2.10		Pass
HE20	MCS0	2	48	5240	106/54	14.79	14.65	17.73	24.00		2.10		Pass
HE40	MCS0	2	38	5190	Full	16.06	16.12	19.10	24.00		2.10		Pass
HE40	MCS0	2	38	5190	242/61	12.87	12.71	15.80	24.00		2.10		Pass
HE40	MCS0	2	46	5230	Full	18.46	18.24	21.36	24.00		2.10		Pass
HE40	MCS0	2	46	5230	242/62	14.82	14.74	17.79	24.00		2.10		Pass
HE80	MCS0	2	42	5210	Full	15.46	15.41	18.45	24.00		2.10		Pass
HE80	MCS0	2	42	5210	484/65	13.49	12.77	16.16	24.00		2.10		Pass
HE160	MCS0	2	50	5250	Full	15.32	15.24	18.29	24.00		2.10		Pass
HE160	MCS0	2	50	5250	996/67	12.97	12.08	15.56	24.00		2.10		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full			8.96	11.00		2.42		Pass
HE20	MCS0	2	36	5180	26/0			8.43	11.00		2.42		Pass
HE20	MCS0	2	36	5180	52/37			8.73	11.00		2.42		Pass
HE20	MCS0	2	36	5180	106/53			8.70	11.00		2.42		Pass
HE20	MCS0	2	44	5220	Full			8.90	11.00		2.42		Pass
HE20	MCS0	2	44	5220	26/4			8.45	11.00		2.42		Pass
HE20	MCS0	2	44	5220	52/39			8.78	11.00		2.42		Pass
HE20	MCS0	2	44	5220	106/53			8.72	11.00		2.42		Pass
HE20	MCS0	2	48	5240	Full			8.79	11.00		2.42		Pass
HE20	MCS0	2	48	5240	26/8			8.68	11.00		2.42		Pass
HE20	MCS0	2	48	5240	52/40			8.77	11.00		2.42		Pass
HE20	MCS0	2	48	5240	106/54			8.77	11.00		2.42		Pass
HE40	MCS0	2	38	5190	Full			4.28	11.00		2.42		Pass
HE40	MCS0	2	38	5190	242/61			3.98	11.00		2.42		Pass
HE40	MCS0	2	46	5230	Full			6.11	11.00		2.42		Pass
HE40	MCS0	2	46	5230	242/62			5.96	11.00		2.42		Pass
HE80	MCS0	2	42	5210	Full			0.84	11.00		2.42		Pass
HE80	MCS0	2	42	5210	484/65			0.81	11.00		2.42		Pass
HE160	MCS0	2	50	5250	Full			-2.38	11.00		2.42		Pass
HE160	MCS0	2	50	5250	996/67			-2.90	11.00		2.42		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	19.43	19.43	26.25	23.15	23.88	29.88	23.98				
HE20	MCS0	2	60	5300	Full	19.43	19.48	23.00	26.25	23.88	29.88	23.98				
HE20	MCS0	2	64	5320	Full	19.43	19.43	22.80	24.85	23.88	29.88	23.98				
HE40	MCS0	2	54	5270	Full	37.96	37.96	41.58	42.21	23.98	30.00	23.98				
HE40	MCS0	2	62	5310	Full	38.06	37.96	41.31	41.40	23.98	30.00	23.98				
HE80	MCS0	2	58	5290	Full	77.20	77.20	82.08	83.04	23.98	30.00	23.98				

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	18.95	18.47	21.73	23.98		2.40	30	Pass	
HE20	MCS0	2	52	5260	26/0	9.03	8.52	11.79	23.98		2.40	30	Pass	
HE20	MCS0	2	52	5260	52/37	11.71	11.45	14.59	23.98		2.40	30	Pass	
HE20	MCS0	2	52	5260	106/53	15.23	14.95	18.10	23.98		2.40	30	Pass	
HE20	MCS0	2	60	5300	Full	18.96	18.49	21.74	23.98		2.40	30	Pass	
HE20	MCS0	2	60	5300	26/4	10.55	9.76	13.18	23.98		2.40	30	Pass	
HE20	MCS0	2	60	5300	52/39	12.02	11.31	14.69	23.98		2.40	30	Pass	
HE20	MCS0	2	60	5300	106/54	15.42	14.65	18.06	23.98		2.40	30	Pass	
HE20	MCS0	2	64	5320	Full	18.99	18.56	21.79	23.98		2.40	30	Pass	
HE20	MCS0	2	64	5320	26/8	9.18	8.79	12.00	23.98		2.40	30	Pass	
HE20	MCS0	2	64	5320	52/40	11.73	11.86	14.81	23.98		2.40	30	Pass	
HE20	MCS0	2	64	5320	106/54	14.89	14.69	17.80	23.98		2.40	30	Pass	
HE40	MCS0	2	54	5270	Full	18.95	18.70	21.84	23.98		2.40	30	Pass	
HE40	MCS0	2	54	5270	242/61	15.65	15.63	18.65	23.98		2.40	30	Pass	
HE40	MCS0	2	62	5310	Full	16.75	16.62	19.70	23.98		2.40	30	Pass	
HE40	MCS0	2	62	5310	242/62	13.85	13.55	16.71	23.98		2.40	30	Pass	
HE80	MCS0	2	58	5290	Full	16.25	15.96	19.12	23.98		2.40	30	Pass	
HE80	MCS0	2	58	5290	484/66	13.52	12.62	16.11	23.98		2.40	30	Pass	
HE160	MCS0	2	50	5250	996/S67	12.67	12.11	15.41	23.98		2.40	30	Pass	

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full			9.24	11.00		2.08		Pass
HE20	MCS0	2	52	5260	26/0			8.58	11.00		2.08		Pass
HE20	MCS0	2	52	5260	52/37			8.80	11.00		2.08		Pass
HE20	MCS0	2	52	5260	106/53			9.17	11.00		2.08		Pass
HE20	MCS0	2	60	5300	Full			9.47	11.00		2.08		Pass
HE20	MCS0	2	60	5300	26/4			9.28	11.00		2.08		Pass
HE20	MCS0	2	60	5300	52/39			9.03	11.00		2.08		Pass
HE20	MCS0	2	60	5300	106/54			9.31	11.00		2.08		Pass
HE20	MCS0	2	64	5320	Full			9.51	11.00		2.08		Pass
HE20	MCS0	2	64	5320	26/8			9.10	11.00		2.08		Pass
HE20	MCS0	2	64	5320	52/40			8.93	11.00		2.08		Pass
HE20	MCS0	2	64	5320	106/54			9.11	11.00		2.08		Pass
HE40	MCS0	2	54	5270	Full			6.62	11.00		2.08		Pass
HE40	MCS0	2	54	5270	242/61			6.18	11.00		2.08		Pass
HE40	MCS0	2	62	5310	Full			4.81	11.00		2.08		Pass
HE40	MCS0	2	62	5310	242/62			4.51	11.00		2.08		Pass
HE80	MCS0	2	58	5290	Full			1.38	11.00		2.08		Pass
HE80	MCS0	2	58	5290	484/66			0.87	11.00		2.08		Pass
HE160	MCS0	2	50	5250	996/S67			-2.92	11.00		2.08		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	19.33	19.28	22.35	22.25	23.85	29.85	23.98	23.98	----	----	----	----
HE20	MCS0	2	116	5580	Full	19.33	19.33	22.30	22.20	23.86	29.86	23.98	23.98	----	----	----	----
HE20	MCS0	2	140	5700	Full	19.38	19.18	22.20	22.05	23.83	29.83	23.98	23.98	----	----	----	----
HE40	MCS0	2	102	5510	Full	37.86	37.86	41.31	41.67	23.98	30.00	23.98	23.98	----	----	----	----
HE40	MCS0	2	110	5550	Full	37.76	37.86	41.22	41.13	23.98	30.00	23.98	23.98	----	----	----	----
HE40	MCS0	2	134	5670	Full	37.96	37.76	41.49	41.31	23.98	30.00	23.98	23.98	----	----	----	----
HE80	MCS0	2	106	5530	Full	77.08	77.08	82.24	82.08	23.98	30.00	23.98	23.98	----	----	----	----
HE80	MCS0	2	122	5610	Full	77.20	77.20	81.60	82.08	23.98	30.00	23.98	23.98	----	----	----	----
HE160	MCS0	2	114	5570	Full	155.84	155.84	162.88	163.20	23.98	30.00	23.98	23.98	----	----	----	----

U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	144	5720	Full	19.28	19.28	22.25	22.20	23.85	29.85	23.98	23.98	-	-	-	-
HE40	MCS0	2	142	5710	Full	37.86	37.86	41.49	41.40	23.98	30.00	23.98	23.98	-	-	-	-
HE80	MCS0	2	138	5690	Full	77.08	76.96	82.24	82.08	23.98	30.00	23.98	23.98	-	-	-	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	16.61	16.90	19.77	23.98	2.40	30	Pass		
HE20	MCS0	2	100	5500	26/0	7.92	7.70	10.82	23.98	2.40	30	Pass		
HE20	MCS0	2	100	5500	52/37	10.20	10.57	13.40	23.98	2.40	30	Pass		
HE20	MCS0	2	100	5500	106/53	13.27	13.38	16.34	23.98	2.40	30	Pass		
HE20	MCS0	2	116	5580	Full	16.70	16.92	19.82	23.98	2.40	30	Pass		
HE20	MCS0	2	116	5580	26/4	9.05	8.54	11.81	23.98	2.40	30	Pass		
HE20	MCS0	2	116	5580	52/38	10.32	10.50	13.42	23.98	2.40	30	Pass		
HE20	MCS0	2	116	5580	106/53	13.54	13.22	16.39	23.98	2.40	30	Pass		
HE20	MCS0	2	140	5700	Full	17.29	16.88	20.10	23.98	2.40	30	Pass		
HE20	MCS0	2	140	5700	26/8	7.86	7.59	10.74	23.98	2.40	30	Pass		
HE20	MCS0	2	140	5700	52/40	10.98	10.72	13.86	23.98	2.40	30	Pass		
HE20	MCS0	2	140	5700	106/54	13.63	13.43	16.54	23.98	2.40	30	Pass		
HE40	MCS0	2	102	5510	Full	16.82	17.09	19.97	23.98	2.40	30	Pass		
HE40	MCS0	2	102	5510	242/61	13.62	13.65	16.65	23.98	2.40	30	Pass		
HE40	MCS0	2	110	5550	Full	16.73	17.08	19.92	23.98	2.40	30	Pass		
HE40	MCS0	2	110	5550	242/61	13.86	13.79	16.84	23.98	2.40	30	Pass		
HE40	MCS0	2	134	5670	Full	17.03	16.87	19.96	23.98	2.40	30	Pass		
HE40	MCS0	2	134	5670	242/62	13.63	13.52	16.59	23.98	2.40	30	Pass		
HE80	MCS0	2	106	5530	Full	16.84	17.06	19.96	23.98	2.40	30	Pass		
HE80	MCS0	2	106	5530	484/65	13.72	13.58	16.67	23.98	2.40	30	Pass		
HE80	MCS0	2	122	5610	Full	16.96	16.87	19.93	23.98	2.40	30	Pass		
HE80	MCS0	2	122	5610	484/66	13.97	13.83	16.92	23.98	2.40	30	Pass		
HE160	MCS0	2	114	5570	Full	14.96	15.18	18.08	23.98	2.40	30	Pass		
HE160	MCS0	2	114	5570	996/67	12.18	12.26	15.23	23.98	2.40	30	Pass		
HE160	MCS0	2	114	5570	996/S67	12.41	11.92	15.18	23.98	2.40	30	Pass		

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	17.04	17.29	20.18	23.98	2.40	30	Pass		
HE20	MCS0	2	144	5720	26/8	8.02	7.84	10.94	23.98	2.40	30	Pass		
HE20	MCS0	2	144	5720	52/40	10.79	10.69	13.75	23.98	2.40	30	Pass		
HE20	MCS0	2	144	5720	106/54	13.72	13.61	16.68	23.98	2.40	30	Pass		
HE40	MCS0	2	142	5710	Full	17.25	17.27	20.27	23.98	2.40	30	Pass		
HE40	MCS0	2	142	5710	242/62	13.54	13.72	16.64	23.98	2.40	30	Pass		
HE80	MCS0	2	138	5690	Full	17.17	16.88	20.04	23.98	2.40	30	Pass		
HE80	MCS0	2	138	5690	484/66	14.21	13.56	16.91	23.98	2.40	30	Pass		

TEST RESULTS DATA
Power Spectral Density

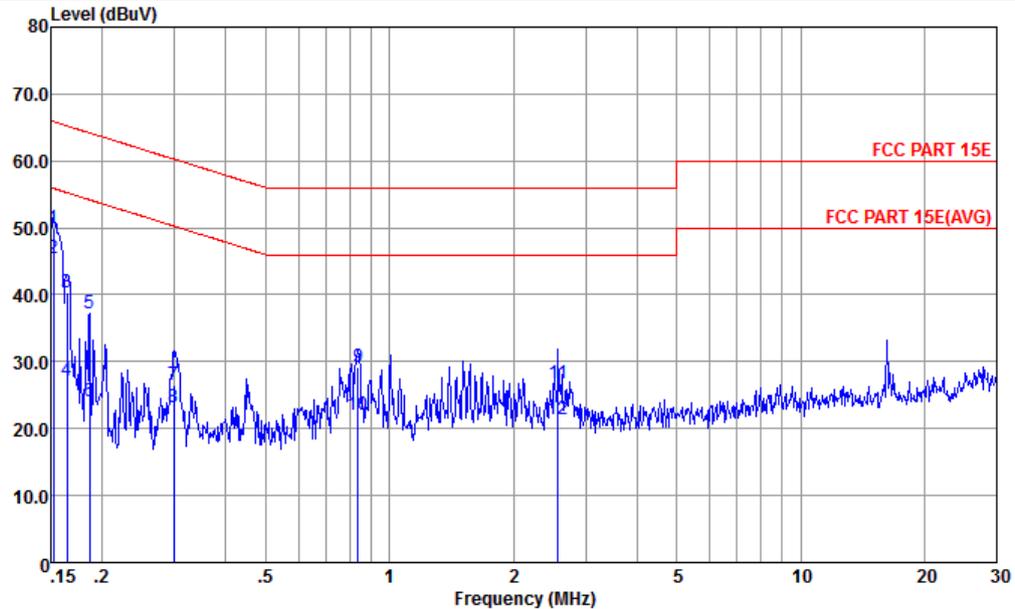
U-NII-2C MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	100	5500	Full			7.88	11.00		2.69		Pass
HE20	MCS0	2	100	5500	26/0			7.66	11.00		2.69		Pass
HE20	MCS0	2	100	5500	52/37			7.75	11.00		2.69		Pass
HE20	MCS0	2	100	5500	106/53			7.46	11.00		2.69		Pass
HE20	MCS0	2	116	5580	Full			7.88	11.00		2.69		Pass
HE20	MCS0	2	116	5580	26/4			7.78	11.00		2.69		Pass
HE20	MCS0	2	116	5580	52/38			7.77	11.00		2.69		Pass
HE20	MCS0	2	116	5580	106/53			7.63	11.00		2.69		Pass
HE20	MCS0	2	140	5700	Full			7.94	11.00		2.69		Pass
HE20	MCS0	2	140	5700	26/8			7.59	11.00		2.69		Pass
HE20	MCS0	2	140	5700	52/40			7.85	11.00		2.69		Pass
HE20	MCS0	2	140	5700	106/54			7.84	11.00		2.69		Pass
HE40	MCS0	2	102	5510	Full			4.96	11.00		2.69		Pass
HE40	MCS0	2	102	5510	242/61			4.50	11.00		2.69		Pass
HE40	MCS0	2	110	5550	Full			4.88	11.00		2.69		Pass
HE40	MCS0	2	110	5550	242/61			4.48	11.00		2.69		Pass
HE40	MCS0	2	134	5670	Full			4.98	11.00		2.69		Pass
HE40	MCS0	2	134	5670	242/62			4.30	11.00		2.69		Pass
HE80	MCS0	2	106	5530	Full			1.89	11.00		2.69		Pass
HE80	MCS0	2	106	5530	484/65			1.32	11.00		2.69		Pass
HE80	MCS0	2	122	5610	Full			1.68	11.00		2.69		Pass
HE80	MCS0	2	122	5610	484/66			1.65	11.00		2.69		Pass
HE160	MCS0	2	114	5570	Full			-2.61	11.00		2.69		Pass
HE160	MCS0	2	114	5570	996/67			-2.83	11.00		2.69		Pass
HE160	MCS0	2	114	5570	996/S67			-2.83	11.00		2.69		Pass

U-NII-2C straddle channel MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	144	5720	Full			7.95	11.00		2.69		Pass
HE20	MCS0	2	144	5720	26/8			7.80	11.00		2.69		Pass
HE20	MCS0	2	144	5720	52/40			7.88	11.00		2.69		Pass
HE20	MCS0	2	144	5720	106/54			7.82	11.00		2.69		Pass
HE40	MCS0	2	142	5710	Full			5.18	11.00		2.69		Pass
HE40	MCS0	2	142	5710	242/62			4.56	11.00		2.69		Pass
HE80	MCS0	2	138	5690	Full			1.96	11.00		2.69		Pass
HE80	MCS0	2	138	5690	484/66			1.93	11.00		2.69		Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

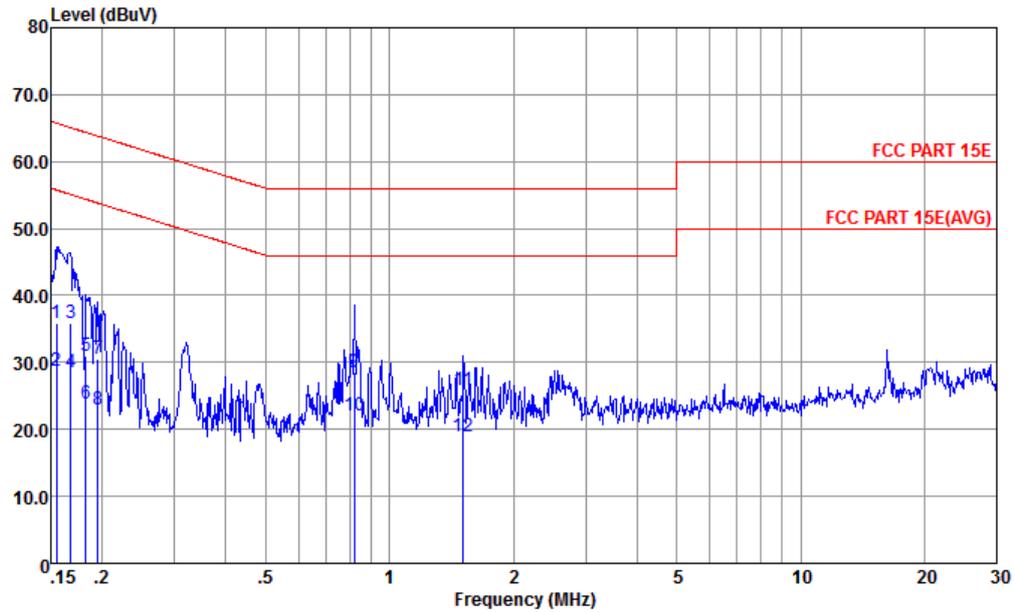


Site : CO01-KS
 Condition : FCC PART 15E TWO-LISN-CN02-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.152	49.91	-15.96	65.87	29.80	9.64	10.47	QP
2 *	0.152	45.41	-10.46	55.87	25.30	9.64	10.47	Average
3	0.164	40.28	-24.97	65.25	20.20	9.64	10.44	QP
4	0.164	27.18	-28.07	55.25	7.10	9.64	10.44	Average
5	0.186	37.23	-26.97	64.20	17.20	9.64	10.39	QP
6	0.186	24.13	-30.07	54.20	4.10	9.64	10.39	Average
7	0.299	26.55	-33.73	60.28	6.60	9.64	10.31	QP
8	0.299	23.25	-27.03	50.28	3.30	9.64	10.31	Average
9	0.839	29.12	-26.88	56.00	9.20	9.68	10.24	QP
10	0.839	22.02	-23.98	46.00	2.10	9.68	10.24	Average
11	2.567	26.85	-29.15	56.00	6.60	10.01	10.24	QP
12	2.567	21.45	-24.55	46.00	1.20	10.01	10.24	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.155	35.77	-29.97	65.74	15.49	9.81	10.47	QP
2	0.155	28.77	-26.97	55.74	8.49	9.81	10.47	Average
3	0.168	35.77	-29.31	65.08	15.50	9.84	10.43	QP
4	0.168	28.47	-26.61	55.08	8.20	9.84	10.43	Average
5	0.182	30.86	-33.51	64.37	10.60	9.86	10.40	QP
6	0.182	23.76	-30.61	54.37	3.50	9.86	10.40	Average
7	0.195	30.46	-33.34	63.80	10.21	9.88	10.37	QP
8	0.195	23.06	-30.74	53.80	2.81	9.88	10.37	Average
9	0.822	28.46	-27.54	56.00	8.50	9.72	10.24	QP
10 *	0.822	22.16	-23.84	46.00	2.20	9.72	10.24	Average
11	1.511	25.87	-30.13	56.00	5.80	9.84	10.23	QP
12	1.511	18.87	-27.13	46.00	-1.20	9.84	10.23	Average

Note:

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



Appendix C. Radiated Spurious Emission

UNII 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.8	59.58	-14.42	74	44.99	35.29	12.02	32.72	115	108	P	H
		5148.32	47.81	-6.19	54	33.22	35.29	12.02	32.72	115	108	A	H
		5182	111.76	-	-	97.08	35.31	12.08	32.71	115	108	P	H
		5182	105.28	-	-	90.6	35.31	12.08	32.71	115	108	A	H
		5108.64	57.59	-16.41	74	43.47	34.9	11.96	32.74	294	42	P	V
		5150	46.65	-7.35	54	32.42	34.93	12.02	32.72	294	42	A	V
		5188	108.1	-	-	93.77	34.96	12.08	32.71	294	42	P	V
		5188	100.84	-	-	86.51	34.96	12.08	32.71	294	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	46.24	-22.06	68.3	50.19	38.59	18.03	60.57	300	0	P	H
		10360	46.25	-22.05	68.3	51.02	37.77	18.03	60.57	100	360	P	V
802.11a CH 44 5220MHz		10440	45.85	-22.45	68.3	49.7	38.63	18.09	60.57	300	0	P	H
		10440	44.28	-24.02	68.3	48.94	37.82	18.09	60.57	100	360	P	V
802.11a CH 48 5240MHz		10480	46.57	-21.73	68.3	50.36	38.65	18.14	60.58	300	0	P	H
		10480	45.22	-23.08	68.3	49.8	37.86	18.14	60.58	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE20 CH 36 5180MHz and a Remark section.



UNII 1 5150~5250MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path 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.



UNII 1 5150~5250MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 38 5190MHz		5144.96	61.71	-12.29	74	47.12	35.29	12.02	32.72	100	124	P	H
		5147.2	50.87	-3.13	54	36.28	35.29	12.02	32.72	100	124	A	H
		5182	107.46	-	-	92.78	35.31	12.08	32.71	100	124	P	H
		5182	100.08	-	-	85.4	35.31	12.08	32.71	100	124	A	H
		5355.54	55.26	-18.74	74	40.19	35.42	12.29	32.64	100	124	P	H
		5356.8	45.41	-8.59	54	30.34	35.42	12.29	32.64	100	124	A	H
		5148.48	58.6	-15.4	74	44.37	34.93	12.02	32.72	323	83	P	V
		5147.84	48.32	-5.68	54	34.09	34.93	12.02	32.72	323	83	A	V
		5194	105.66	-	-	91.27	34.98	12.11	32.7	323	83	P	V
		5194	96.87	-	-	82.48	34.98	12.11	32.7	323	83	A	V
		5355.72	55.88	-18.12	74	41.11	35.12	12.29	32.64	323	83	P	V
		5350.14	45.07	-8.93	54	30.31	35.12	12.29	32.65	323	83	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE40 CH 38 5190MHz and CH 46 5230MHz, and a Remark section.



UNII 1 5150~5250MHz
WIFI 802.11ax HE80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include frequency measurements for 802.11ax HE80 CH 42 5210MHz and a Remark section.



UNII 1 5150~5250MHz
WIFI 802.11ax HE 80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE80 and CH 42 5210MHz, and a Remark section.



UNII 1 - 5150~5250MHz

WIFI 802.11ax HE20 RU26 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU26 Left CH 36 5180MHz		5111.36	56.85	-17.15	74	42.37	35.26	11.96	32.74	106	187	P	H
		5149.44	46.4	-7.6	54	31.81	35.29	12.02	32.72	106	187	A	H
		5170	113.49	-	-	98.85	35.3	12.05	32.71	106	187	P	H
		5170	104.32	-	-	89.68	35.3	12.05	32.71	106	187	A	H
		5119.2	56.88	-17.12	74	42.75	34.9	11.96	32.73	340	44	P	V
		5105.76	46.08	-7.92	54	31.96	34.9	11.96	32.74	340	44	A	V
		5170	112.77	-	-	98.48	34.95	12.05	32.71	340	44	P	V
		5170	102.65	-	-	88.36	34.95	12.05	32.71	340	44	A	V
802.11ax HE20 RU26 Right CH 48 5240MHz		5386.5	54.78	-19.22	74	39.64	35.44	12.33	32.63	110	124	P	H
		5352.84	45.27	-8.73	54	30.2	35.42	12.29	32.64	110	124	A	H
		5248	116.6	-	-	101.77	35.35	12.17	32.69	110	124	P	H
		5248	108.26	-	-	93.43	35.35	12.17	32.69	110	124	A	H
		5384.52	54.76	-19.24	74	39.9	35.16	12.33	32.63	324	86	P	V
		5354.46	44.89	-9.11	54	30.12	35.12	12.29	32.64	324	86	A	V
		5248	115.94	-	-	101.43	35.03	12.17	32.69	324	86	P	V
		5248	107.64	-	-	93.13	35.03	12.17	32.69	324	86	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11ax HE20 RU52 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU52 Left CH 36 5180MHz		5113.44	57.26	-16.74	74	42.78	35.26	11.96	32.74	100	120	P	H
		5150	46.71	-7.29	54	32.12	35.29	12.02	32.72	100	120	A	H
		5176	115.08	-	-	100.41	35.3	12.08	32.71	100	120	P	H
		5176	105.68	-	-	91.01	35.3	12.08	32.71	100	120	A	H
		5106.4	57.14	-16.86	74	43.02	34.9	11.96	32.74	317	85	P	V
		5100.8	46.19	-7.81	54	32.12	34.88	11.93	32.74	317	85	A	V
		5176	112.98	-	-	98.65	34.96	12.08	32.71	317	85	P	V
		5176	105.49	-	-	91.16	34.96	12.08	32.71	317	85	A	V
802.11ax HE20 RU52 Right CH 48 5240MHz		5353.2	56.82	-17.18	74	41.75	35.42	12.29	32.64	100	121	P	H
		5353.2	45.66	-8.34	54	30.59	35.42	12.29	32.64	100	121	A	H
		5248	118.73	-	-	103.9	35.35	12.17	32.69	100	121	P	H
		5248	110.94	-	-	96.11	35.35	12.17	32.69	100	121	A	H
		5363.64	55.54	-18.46	74	40.73	35.14	12.31	32.64	327	89	P	V
		5352.66	45.2	-8.8	54	30.44	35.12	12.29	32.65	327	89	A	V
		5248	116.13	-	-	101.62	35.03	12.17	32.69	327	89	P	V
		5248	106.36	-	-	91.85	35.03	12.17	32.69	327	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802. 11ax HE20 RU106 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU106 Left CH 36 5180MHz		5148.64	58.46	-15.54	74	43.87	35.29	12.02	32.72	100	118	P	H
		5100	46.7	-7.3	54	32.26	35.25	11.93	32.74	100	118	A	H
		5176	114.4	-	-	99.73	35.3	12.08	32.71	100	118	P	H
		5176	107.09	-	-	92.42	35.3	12.08	32.71	100	118	A	H
		5149.98	57.95	-16.05	74	43.72	34.93	12.02	32.72	341	78	P	V
		5100	46.17	-7.83	54	32.1	34.88	11.93	32.74	341	78	A	V
		5176	112.05	-	-	97.72	34.96	12.08	32.71	341	78	P	V
		5176	104.33	-	-	90	34.96	12.08	32.71	341	78	A	V
802.11ax HE20 RU106 Right CH 48 5240MHz		5388.84	56.22	-17.78	74	41.08	35.44	12.33	32.63	100	115	P	H
		5355.36	45.23	-8.77	54	30.16	35.42	12.29	32.64	100	115	A	H
		5248	113.55	-	-	98.72	35.35	12.17	32.69	100	115	P	H
		5248	106.22	-	-	91.39	35.35	12.17	32.69	100	115	A	H
		5391.72	56.01	-17.99	74	41.15	35.16	12.33	32.63	326	81	P	V
		5356.98	44.92	-9.08	54	30.15	35.12	12.29	32.64	326	81	A	V
		5242	111.6	-	-	97.09	35.03	12.17	32.69	326	81	P	V
		5242	104.57	-	-	90.06	35.03	12.17	32.69	326	81	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11ax HE40 RU242 Left /Right(Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 RU242 Left CH 38 5190MHz		5137.6	66.36	-7.64	74	51.82	35.28	11.99	32.73	100	117	P	H
		5148	50.22	-3.78	54	35.63	35.29	12.02	32.72	100	117	A	H
		5176	110.24	-	-	95.57	35.3	12.08	32.71	100	117	P	H
		5176	102.18	-	-	87.51	35.3	12.08	32.71	100	117	A	H
		5364.54	55.16	-18.84	74	40.07	35.42	12.31	32.64	100	117	P	H
		5353.02	45.02	-8.98	54	29.95	35.42	12.29	32.64	100	117	A	H
		5149.98	61.86	-12.14	74	47.63	34.93	12.02	32.72	340	79	P	V
		5148.32	48.44	-5.56	54	34.21	34.93	12.02	32.72	340	79	A	V
		5188	107.32	-	-	92.99	34.96	12.08	32.71	340	79	P	V
		5188	98.9	-	-	84.57	34.96	12.08	32.71	340	79	A	V
802.11ax HE40 RU242 Right CH 46 5230MHz		5378.04	55.7	-18.3	74	40.84	35.16	12.33	32.63	340	79	P	V
		5356.44	44.7	-9.3	54	29.93	35.12	12.29	32.64	340	79	A	V
		5132.96	59.23	-14.77	74	44.69	35.28	11.99	32.73	100	115	P	H
		5118.4	46.55	-7.45	54	32.06	35.26	11.96	32.73	100	115	A	H
		5236	110.77	-	-	95.97	35.34	12.15	32.69	100	115	P	H
		5236	102.24	-	-	87.44	35.34	12.15	32.69	100	115	A	H
		5395.14	55.57	-18.43	74	40.41	35.44	12.35	32.63	100	115	P	H
		5350.14	45.18	-8.82	54	30.12	35.42	12.29	32.65	100	115	A	H
		5112.32	55.87	-18.13	74	41.75	34.9	11.96	32.74	329	82	P	V
		5107.2	46.13	-7.87	54	32.01	34.9	11.96	32.74	329	82	A	V
Remark		5236	109.62	-	-	95.15	35.01	12.15	32.69	329	82	P	V
		5236	100.08	-	-	85.61	35.01	12.15	32.69	329	82	A	V
		5367.42	55.15	-18.85	74	40.34	35.14	12.31	32.64	329	82	P	V
		5359.5	44.88	-9.12	54	30.11	35.12	12.29	32.64	329	82	A	V

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



UNII 1 5150~5250MHz
WIFI 802.11ax HE80 RU484 Left (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for frequencies like 5147.52, 5146.56, 5188, 5390.46, 5352.12, 5147.04, 5147.68, 5188, 5188, 5355.54, 5356.98.

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



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Contains 8 rows of test data and a Remark section.



UNII 2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	45.76	-22.54	68.3	49.5	38.67	18.17	60.58	300	0	P	H
		10520	45.14	-23.16	68.3	49.67	37.88	18.17	60.58	100	360	P	V
802.11a CH 60 5300MHz		10600	45.68	-28.32	74	49.29	38.72	18.24	60.57	300	0	P	H
		10600	46.34	-27.66	74	50.73	37.94	18.24	60.57	100	360	P	V
802.11a CH 64 5320MHz		10640	46.21	-27.79	74	49.76	38.74	18.27	60.56	300	0	P	H
		10640	44.27	-29.73	74	48.59	37.97	18.27	60.56	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11ax HE20 CH 64 5320MHz and a Remark section.



UNII 2A 5250~5350MHz
WIFI 802. 11ax HE20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20		10518.52	45.51	-22.79	68.3	49.25	38.67	18.17	60.58	300	0	P	H
CH 52		10518.52	45.16	-23.14	68.3	49.69	37.88	18.17	60.58	100	360	P	V
5260MHz													
802.11ax HE20		10600	45.38	-28.62	74	48.99	38.72	18.24	60.57	300	0	P	H
CH 60		10600	45.95	-28.05	74	50.34	37.94	18.24	60.57	100	360	P	V
5300MHz													
802.11ax HE20		10638.63	45.71	-28.29	74	49.26	38.74	18.27	60.56	300	0	P	H
CH 64		10638.63	44.2	-29.8	74	48.52	37.97	18.27	60.56	100	360	P	V
5320MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 62 5310MHz		5121.76	56.81	-17.19	74	42.32	35.26	11.96	32.73	100	122	P	H
		5138.56	46.45	-7.55	54	31.91	35.28	11.99	32.73	100	122	A	H
		5320	109.2	-	-	94.22	35.39	12.25	32.66	100	122	P	H
		5320	99.53	-	-	84.55	35.39	12.25	32.66	100	122	A	H
		5354.7	61.72	-12.28	74	46.65	35.42	12.29	32.64	100	122	P	H
		5354.5	50.57	-3.43	54	35.5	35.42	12.29	32.64	100	122	A	H
		5129.92	56.46	-17.54	74	42.29	34.91	11.99	32.73	300	89	P	V
		5112.16	46	-8	54	31.88	34.9	11.96	32.74	300	89	A	V
		5314	106.83	-	-	92.15	35.09	12.25	32.66	300	89	P	V
		5314	98.11	-	-	83.43	35.09	12.25	32.66	300	89	A	V
	5354	59.74	-14.26	74	44.97	35.12	12.29	32.64	300	89	P	V	
	5354.2	49.48	-4.52	54	34.71	35.12	12.29	32.64	300	89	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802. 11ax HE40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE40 CH 54 and CH 62.



UNII 2A 5250~5350MHz
WIFI 802.11ax HE80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 CH 58 5290MHz		5122.4	56.3	-17.7	74	41.81	35.26	11.96	32.73	102	121	P	H
		5106.24	46.4	-7.6	54	31.93	35.25	11.96	32.74	102	121	A	H
		5266	103.4	-	-	88.53	35.36	12.19	32.68	102	121	P	H
		5266	95.44	-	-	80.57	35.36	12.19	32.68	102	121	A	H
		5356.4	60.85	-13.15	74	45.78	35.42	12.29	32.64	102	121	P	H
		5355.8	50.11	-3.89	54	35.04	35.42	12.29	32.64	102	121	A	H
		5140.8	55.93	-18.07	74	41.71	34.93	12.02	32.73	348	85	P	V
		5139.04	45.99	-8.01	54	31.82	34.91	11.99	32.73	348	85	A	V
		5308	101.74	-	-	87.09	35.08	12.23	32.66	348	85	P	V
		5308	93.43	-	-	78.78	35.08	12.23	32.66	348	85	A	V
		5356	58.22	-15.78	74	43.45	35.12	12.29	32.64	348	85	P	V
		5355.6	48.14	-5.86	54	33.37	35.12	12.29	32.64	348	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz

WIFI 802. 11ax HE80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80		10578.58	45.24	-23.06	68.3	48.9	38.7	18.21	60.57	300	0	P	H
CH 58 5290MHz		10578.58	44.79	-23.51	68.3	49.23	37.92	18.21	60.57	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802.11ax HE160 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include frequencies like 5146.08, 5145.28, 5224, 5355.5, 5355.7, 5107.2, 5126.4, 5248, 5248, 5355.2, 5355.3.

Remark

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



UNII 2A 5250~5350MHz

WIFI 802.11ax HE160 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160		10500	45.64	-22.66	68.3	49.41	38.66	18.15	60.58	300	0	P	H
CH 50 5250MHz		10500	45.64	-22.66	68.3	49.41	38.66	18.15	60.58	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz

WIFI 802.11ax HE20 RU26 Left/Right(Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU26 Left CH 52 5260MHz		5138.88	56.15	-17.85	74	41.61	35.28	11.99	32.73	111	208	P	H
		5119.52	46.39	-7.61	54	31.9	35.26	11.96	32.73	111	208	A	H
		5254	113.69	-	-	98.86	35.35	12.17	32.69	111	208	P	H
		5254	105.2	-	-	90.37	35.35	12.17	32.69	111	208	A	H
		5121.44	56.63	-17.37	74	42.5	34.9	11.96	32.73	325	86	P	V
		5127.52	46.16	-7.84	54	31.99	34.91	11.99	32.73	325	86	A	V
		5254	114.94	-	-	100.43	35.03	12.17	32.69	325	86	P	V
		5254	107.04	-	-	92.53	35.03	12.17	32.69	325	86	A	V
802.11ax HE20 RU26 Right CH 64 5320MHz		5352.5	64.85	-9.15	74	49.79	35.42	12.29	32.65	100	121	P	H
		5350.2	45.49	-8.51	54	30.43	35.42	12.29	32.65	100	121	A	H
		5326	117.27	-	-	102.29	35.39	12.25	32.66	100	121	P	H
		5326	106.72	-	-	91.74	35.39	12.25	32.66	100	121	A	H
		5364.3	56.35	-17.65	74	41.54	35.14	12.31	32.64	339	84	P	V
		5350	45.17	-8.83	54	30.41	35.12	12.29	32.65	339	84	A	V
		5326	116.27	-	-	101.59	35.09	12.25	32.66	339	84	P	V
		5326	109.58	-	-	94.9	35.09	12.25	32.66	339	84	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



UNII 2A 5250~5350MHz

WIFI 802. 11ax HE20 RU52 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU52 Left CH 52 5260MHz		5132.64	58.14	-15.86	74	43.6	35.28	11.99	32.73	100	120	P	H
		5126.88	46.96	-7.04	54	32.42	35.28	11.99	32.73	100	120	A	H
		5254	116	-	-	101.17	35.35	12.17	32.69	100	120	P	H
		5254	107.79	-	-	92.96	35.35	12.17	32.69	100	120	A	H
		5131.2	57.63	-16.37	74	43.46	34.91	11.99	32.73	327	87	P	V
		5130.56	46.44	-7.56	54	32.27	34.91	11.99	32.73	327	87	A	V
		5254	116.13	-	-	101.62	35.03	12.17	32.69	327	87	P	V
		5254	109.24	-	-	94.73	35.03	12.17	32.69	327	87	A	V
802.11ax HE20 RU52 Right CH 64 5320MHz		5352.7	65.23	-8.77	74	50.17	35.42	12.29	32.65	100	121	P	H
		5352.5	46.45	-7.55	54	31.39	35.42	12.29	32.65	100	121	A	H
		5326	118.45	-	-	103.47	35.39	12.25	32.66	100	121	P	H
		5326	108.97	-	-	93.99	35.39	12.25	32.66	100	121	A	H
		5357.3	56.12	-17.88	74	41.35	35.12	12.29	32.64	341	86	P	V
		5352.4	45.71	-8.29	54	30.95	35.12	12.29	32.65	341	86	A	V
		5326	116.54	-	-	101.86	35.09	12.25	32.66	341	86	P	V
		5326	109.77	-	-	95.09	35.09	12.25	32.66	341	86	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz

WIFI 802. 11ax HE20 RU106 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU106 Left CH 52 5260MHz		5104	56.95	-17.05	74	42.51	35.25	11.93	32.74	100	116	P	H
		5124.64	46.54	-7.46	54	32.02	35.26	11.99	32.73	100	116	A	H
		5254	113.97	-	-	99.14	35.35	12.17	32.69	100	116	P	H
		5254	106.34	-	-	91.51	35.35	12.17	32.69	100	116	A	H
		5115.52	57.24	-16.76	74	43.12	34.9	11.96	32.74	278	83	P	V
		5128.48	46.09	-7.91	54	31.92	34.91	11.99	32.73	278	83	A	V
		5254	111.17	-	-	96.66	35.03	12.17	32.69	278	83	P	V
		5254	104.37	-	-	89.86	35.03	12.17	32.69	278	83	A	V
802.11ax HE20 RU106 Right CH 64 5320MHz		5360.7	55.57	-18.43	74	40.48	35.42	12.31	32.64	100	114	P	H
		5350	45.52	-8.48	54	30.46	35.42	12.29	32.65	100	114	A	H
		5326	115.01	-	-	100.03	35.39	12.25	32.66	100	114	P	H
		5326	106.74	-	-	91.76	35.39	12.25	32.66	100	114	A	H
		5354.3	58.46	-15.54	74	43.69	35.12	12.29	32.64	298	80	P	V
		5350	45.19	-8.81	54	30.43	35.12	12.29	32.65	298	80	A	V
		5326	112.73	-	-	98.05	35.09	12.25	32.66	298	80	P	V
		5326	105.6	-	-	90.92	35.09	12.25	32.66	298	80	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz

WIFI 802.11ax HE40 RU242 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 RU242 Left CH 54 5270MHz		5131.36	57.05	-16.95	74	42.51	35.28	11.99	32.73	104	117	P	H
		5112	46.57	-7.43	54	32.09	35.26	11.96	32.74	104	117	A	H
		5254	111.09	-	-	96.26	35.35	12.17	32.69	104	117	P	H
		5254	103.13	-	-	88.3	35.35	12.17	32.69	104	117	A	H
		5357	56.28	-17.72	74	41.21	35.42	12.29	32.64	104	117	P	H
		5352.3	45.21	-8.79	54	30.15	35.42	12.29	32.65	104	117	A	H
		5137.6	56.8	-17.2	74	42.63	34.91	11.99	32.73	322	80	P	V
		5122.08	46.17	-7.83	54	32.04	34.9	11.96	32.73	322	80	A	V
		5266	109.15	-	-	94.6	35.04	12.19	32.68	322	80	P	V
		5266	101.23	-	-	86.68	35.04	12.19	32.68	322	80	A	V
		5351.7	55.67	-18.33	74	40.91	35.12	12.29	32.65	322	80	P	V
		5352.9	44.97	-9.03	54	30.2	35.12	12.29	32.64	322	80	A	V
802.11ax HE40 RU242 Left CH 62 5310MHz		5148.96	56.42	-17.58	74	41.83	35.29	12.02	32.72	101	116	P	H
		5121.6	46.38	-7.62	54	31.89	35.26	11.96	32.73	101	116	A	H
		5326	109.63	-	-	94.65	35.39	12.25	32.66	101	116	P	H
		5326	100.77	-	-	85.79	35.39	12.25	32.66	101	116	A	H
		5354	64.65	-9.35	74	49.58	35.42	12.29	32.64	101	116	P	H
		5352.3	50.3	-3.7	54	35.24	35.42	12.29	32.65	101	116	A	H
		5117.28	55.73	-18.27	74	41.61	34.9	11.96	32.74	300	80	P	V
		5122.4	45.95	-8.05	54	31.82	34.9	11.96	32.73	300	80	A	V
		5326	106.92	-	-	92.24	35.09	12.25	32.66	300	80	P	V
		5326	99.13	-	-	84.45	35.09	12.25	32.66	300	80	A	V
		5351.6	70.12	-3.88	74	55.36	35.12	12.29	32.65	300	80	P	V
		5352.1	47.07	-6.93	54	32.31	35.12	12.29	32.65	300	80	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802.11ax HE80 RU484 Right (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for frequencies 5118.88 to 5356.1 MHz and a Remark section.



UNII 2A 5250~5350MHz

WIFI 802.11ax HE160 RU996 Left/Right(Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 RU996 Left CH 50 5250MHz		5122.08	68.5	-5.5	74	54.01	35.26	11.96	32.73	100	123	P	H
		5146.72	49.81	-4.19	54	35.22	35.29	12.02	32.72	100	123	A	H
		5176	101.6	-	-	86.93	35.3	12.08	32.71	100	123	P	H
		5176	91.58	-	-	76.91	35.3	12.08	32.71	100	123	A	H
		5398.1	65.6	-8.4	74	50.44	35.44	12.35	32.63	100	123	P	H
		5398.7	47.05	-6.95	54	31.89	35.44	12.35	32.63	100	123	A	H
		5123.68	64.69	-9.31	74	50.52	34.91	11.99	32.73	287	85	P	V
		5127.84	47.95	-6.05	54	33.78	34.91	11.99	32.73	287	85	A	V
		5218	100.2	-	-	85.77	34.99	12.13	32.69	287	85	P	V
		5218	89.87	-	-	75.44	34.99	12.13	32.69	287	85	A	V
		5397.3	65.19	-8.81	74	50.3	35.17	12.35	32.63	287	85	P	V
		5392.3	46.91	-7.09	54	32.05	35.16	12.33	32.63	287	85	A	V
802.11ax HE160 RU996 Right CH 50 5250MHz		5123.04	69.01	-4.99	74	54.49	35.26	11.99	32.73	102	121	P	H
		5128.16	48.86	-5.14	54	34.32	35.28	11.99	32.73	102	121	A	H
		5254	101.35	-	-	86.52	35.35	12.17	32.69	102	121	P	H
		5254	91.17	-	-	76.34	35.35	12.17	32.69	102	121	A	H
		5397.7	66.52	-7.48	74	51.36	35.44	12.35	32.63	102	121	P	H
		5355.4	48.01	-5.99	54	32.94	35.42	12.29	32.64	102	121	A	H
		5123.68	64.68	-9.32	74	50.51	34.91	11.99	32.73	326	85	P	V
		5117.6	47.37	-6.63	54	33.25	34.9	11.96	32.74	326	85	A	V
		5278	100.85	-	-	86.26	35.06	12.21	32.68	326	85	P	V
		5278	92.15	-	-	77.56	35.06	12.21	32.68	326	85	A	V
	5398.3	65.91	-8.09	74	51.02	35.17	12.35	32.63	326	85	P	V	
	5355.4	47.16	-6.84	54	32.39	35.12	12.29	32.64	326	85	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5371.12	56.14	-17.86	74	41.04	35.43	12.31	32.64	102	97	P	H
		5463.6	55.11	-13.19	68.3	39.84	35.48	12.39	32.6	102	97	P	H
		5458.48	45.68	-8.32	54	30.42	35.48	12.38	32.6	102	97	A	H
		5500	111.13	-	-	95.79	35.5	12.42	32.58	102	97	P	H
		5500	104.23	-	-	88.89	35.5	12.42	32.58	102	97	A	H
		5447.76	55.49	-18.51	74	40.49	35.22	12.38	32.6	328	41	P	V
		5470	55.69	-12.61	68.3	40.66	35.24	12.39	32.6	328	41	P	V
		5459.76	45.39	-8.61	54	30.39	35.22	12.38	32.6	328	41	A	V
		5500	109.46	-	-	94.35	35.27	12.42	32.58	328	41	P	V
		5500	102.65	-	-	87.54	35.27	12.42	32.58	328	41	A	V
802.11a CH 140 5700MHz		5727.08	59.26	-9.04	68.3	43.61	35.72	12.65	32.72	110	119	P	H
		5698	110.99	-	-	95.42	35.67	12.6	32.7	110	119	P	H
		5698	103.56	-	-	87.99	35.67	12.6	32.7	110	119	A	H
		5727.8	59.39	-8.91	68.3	44.14	35.32	12.65	32.72	273	85	P	V
		5698	111.1	-	-	95.85	35.35	12.6	32.7	273	85	P	V
		5698	104.21	-	-	88.96	35.35	12.6	32.7	273	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	45.29	-28.71	74	48.28	38.93	18.59	60.51	300	0	P	H
		11000	45.28	-28.72	74	48.97	38.23	18.59	60.51	100	360	P	V
802.11a CH 116 5580MHz		11160	46.36	-27.64	74	49.11	39.02	18.73	60.5	300	0	P	H
		11160	45.34	-28.66	74	48.76	38.35	18.73	60.5	100	360	P	V
802.11a CH 140 5700MHz		11400	46.7	-27.3	74	49.11	39.15	18.93	60.49	300	0	P	H
		11400	45.04	-28.96	74	48.07	38.53	18.93	60.49	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 CH 100 5500MHz		5423.12	55.96	-18.04	74	40.76	35.46	12.36	32.62	100	104	P	H
		5466.16	57.14	-11.16	68.3	41.87	35.48	12.39	32.6	100	104	P	H
		5457.36	45.65	-8.35	54	30.39	35.48	12.38	32.6	100	104	A	H
		5500	111.77	-	-	96.43	35.5	12.42	32.58	100	104	P	H
		5500	103.94	-	-	88.6	35.5	12.42	32.58	100	104	A	H
		5364.08	55.49	-18.51	74	40.68	35.14	12.31	32.64	293	85	P	V
		5467.92	54.44	-13.86	68.3	39.41	35.24	12.39	32.6	293	85	P	V
		5458.48	45.33	-8.67	54	30.33	35.22	12.38	32.6	293	85	A	V
		5494	112.37	-	-	97.29	35.25	12.41	32.58	293	85	P	V
	5494	103.57	-	-	88.49	35.25	12.41	32.58	293	85	A	V	
802.11ax HE20 CH 140 5700MHz		5725.8	62.46	-5.84	68.3	46.81	35.72	12.65	32.72	101	117	P	H
		5704	111.41	-	-	95.81	35.67	12.63	32.7	101	117	P	H
		5704	103.68	-	-	88.08	35.67	12.63	32.7	101	117	A	H
		5725.56	61.42	-6.88	68.3	46.17	35.32	12.65	32.72	325	84	P	V
		5704	112.37	-	-	97.1	35.34	12.63	32.7	325	84	P	V
		5704	103.27	-	-	88	35.34	12.63	32.7	325	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802. 11ax HE20 (Harmonic @ 3m)

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



UNII 2C - 5470~5725MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 102 5510MHz		5457.52	55.41	-18.59	74	40.15	35.48	12.38	32.6	100	119	P	H
		5465.52	60.9	-7.4	68.3	45.63	35.48	12.39	32.6	100	119	P	H
		5456.24	46.57	-7.43	54	31.31	35.48	12.38	32.6	100	119	A	H
		5512	108.87	-	-	93.52	35.51	12.42	32.58	100	119	P	H
		5512	100.8	-	-	85.45	35.51	12.42	32.58	100	119	A	H
		5760.28	57.61	-10.69	68.3	41.89	35.78	12.69	32.75	100	119	P	H
		5458.8	55.68	-18.32	74	40.68	35.22	12.38	32.6	293	85	P	V
		5467.92	59.32	-8.98	68.3	44.29	35.24	12.39	32.6	293	85	P	V
		5455.92	45.91	-8.09	54	30.91	35.22	12.38	32.6	293	85	A	V
		5506	108.23	-	-	93.12	35.27	12.42	32.58	293	85	P	V
		5506	99.47	-	-	84.36	35.27	12.42	32.58	293	85	A	V
		5743.32	57.56	-10.74	68.3	42.31	35.31	12.67	32.73	293	85	P	V
802.11ax HE40 CH 134 5670MHz		5375.6	55.47	-18.53	74	40.37	35.43	12.31	32.64	100	119	P	H
		5463.92	55.18	-13.12	68.3	39.91	35.48	12.39	32.6	100	119	P	H
		5459.92	45.19	-8.81	54	29.93	35.48	12.38	32.6	100	119	A	H
		5674	108.17	-	-	92.63	35.65	12.58	32.69	100	119	P	H
		5674	100.1	-	-	84.56	35.65	12.58	32.69	100	119	A	H
		5725.96	57.67	-10.63	68.3	42.02	35.72	12.65	32.72	100	119	P	H
		5426.16	55.54	-18.46	74	40.6	35.19	12.36	32.61	276	89	P	V
		5463.76	54.91	-13.39	68.3	39.88	35.24	12.39	32.6	276	89	P	V
		5459.44	44.94	-9.06	54	29.94	35.22	12.38	32.6	276	89	A	V
		5668	108.45	-	-	93.19	35.37	12.58	32.69	276	89	P	V
		5668	99.89	-	-	84.63	35.37	12.58	32.69	276	89	A	V
		5734.92	57.46	-10.84	68.3	42.21	35.31	12.67	32.73	276	89	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802. 11ax HE40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40		11019.02	46.24	-27.76	74	49.21	38.94	18.6	60.51	300	0	P	H
CH 102		11019.02	44.85	-29.15	74	48.52	38.24	18.6	60.51	100	360	P	V
5510MHz													
802.11ax HE40		11099.1	45.34	-28.66	74	48.2	38.98	18.67	60.51	300	0	P	H
CH 110		11099.1	45.12	-28.88	74	48.66	38.3	18.67	60.51	100	360	P	V
5550MHz													
802.11ax HE40		11339.33	46.06	-27.94	74	48.58	39.11	18.87	60.5	300	0	P	H
CH 134		11339.33	44.26	-29.74	74	47.41	38.48	18.87	60.5	100	360	P	V
5670MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz
WIFI 802.11ax HE80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 CH 106 5530MHz		5454.32	60.99	-13.01	74	45.73	35.48	12.38	32.6	100	121	P	H
		5464.4	62.71	-5.59	68.3	47.44	35.48	12.39	32.6	100	121	P	H
		5455.44	50.31	-3.69	54	35.05	35.48	12.38	32.6	100	121	A	H
		5524	105.76	-	-	90.41	35.52	12.43	32.6	100	121	P	H
		5524	96.71	-	-	81.36	35.52	12.43	32.6	100	121	A	H
		5742.12	57.52	-10.78	68.3	41.83	35.75	12.67	32.73	100	121	P	H
		5455.76	62.4	-11.6	74	47.4	35.22	12.38	32.6	300	90	P	V
		5465.36	61.79	-6.51	68.3	46.76	35.24	12.39	32.6	300	90	P	V
		5454.64	49.51	-4.49	54	34.51	35.22	12.38	32.6	300	90	A	V
		5536	105.03	-	-	89.89	35.3	12.44	32.6	300	90	P	V
		5536	96.19	-	-	81.05	35.3	12.44	32.6	300	90	A	V
		5731	56.48	-11.82	68.3	41.24	35.32	12.65	32.73	300	90	P	V
802.11ax HE80 CH 122 5610MHz		5416.4	55.4	-18.6	74	40.2	35.46	12.36	32.62	100	118	P	H
		5468.08	55.28	-13.02	68.3	40	35.49	12.39	32.6	100	118	P	H
		5454.64	45.28	-8.72	54	30.02	35.48	12.38	32.6	100	118	A	H
		5572	105.67	-	-	90.27	35.56	12.47	32.63	100	118	P	H
		5572	97.16	-	-	81.76	35.56	12.47	32.63	100	118	A	H
		5763.56	56.67	-11.63	68.3	40.95	35.78	12.69	32.75	100	118	P	H
		5439.44	55.13	-18.87	74	40.16	35.21	12.37	32.61	295	83	P	V
		5465.52	54.36	-13.94	68.3	39.33	35.24	12.39	32.6	295	83	P	V
		5457.36	45.06	-8.94	54	30.06	35.22	12.38	32.6	295	83	A	V
		5608	105.2	-	-	89.98	35.37	12.49	32.64	295	83	P	V
		5608	96.81	-	-	81.59	35.37	12.49	32.64	295	83	A	V
		5740.28	56.73	-11.57	68.3	41.48	35.31	12.67	32.73	295	83	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz
WIFI 802. 11ax HE80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE80 CH 106 5530MHz and CH 122 5610MHz, plus a Remark section.



UNII 2C 5470~5725MHz
WIFI 802.11ax HE160(Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include frequency data for 802.11ax HE160 CH 114 5570MHz and a Remark section.



UNII 2C 5470~5725MHz

WIFI 802.11ax HE160 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160		11140	45.26	-28.74	74	48.06	39	18.7	60.5	300	0	P	H
CH 114 5570MHz		11140	45.74	-28.26	74	49.21	38.33	18.7	60.5	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz

WIFI 802.11ax HE20 RU26 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU26 Left CH 100 5260MHz		5392.4	56.22	-17.78	74	41.08	35.44	12.33	32.63	104	103	P	H
		5464.72	55.26	-13.04	68.3	39.99	35.48	12.39	32.6	104	103	P	H
		5415.28	45.41	-8.59	54	30.22	35.45	12.36	32.62	104	103	A	H
		5494	114.81	-	-	99.48	35.5	12.41	32.58	104	103	P	H
		5494	109.17	-	-	93.84	35.5	12.41	32.58	104	103	A	H
		5418.64	55.47	-18.53	74	40.54	35.19	12.36	32.62	313	87	P	V
		5461.04	54.7	-13.6	68.3	39.7	35.22	12.38	32.6	313	87	P	V
		5415.12	45.48	-8.52	54	30.55	35.19	12.36	32.62	313	87	A	V
		5494	115.21	-	-	100.13	35.25	12.41	32.58	313	87	P	V
		5494	107.73	-	-	92.65	35.25	12.41	32.58	313	87	A	V
802.11ax HE20 RU26 Right CH 140 5700MHz		5733.32	61.61	-6.69	68.3	45.97	35.72	12.65	32.73	100	118	P	H
		5710	116.12	-	-	100.51	35.7	12.63	32.72	100	118	P	H
		5710	110.03	-	-	94.42	35.7	12.63	32.72	100	118	A	H
		5725.72	63.41	-4.89	68.3	48.16	35.32	12.65	32.72	315	81	P	V
		5710	115.76	-	-	100.51	35.34	12.63	32.72	315	81	P	V
		5710	109	-	-	93.75	35.34	12.63	32.72	315	81	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz

WIFI 802.11ax HE20 RU52 Left/Right(Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU52 Left CH 100 5500MHz		5416.4	55.78	-18.22	74	40.58	35.46	12.36	32.62	100	118	P	H
		5463.76	55.08	-13.22	68.3	39.81	35.48	12.39	32.6	100	118	P	H
		5417.04	45.76	-8.24	54	30.56	35.46	12.36	32.62	100	118	A	H
		5494	117.98	-	-	102.65	35.5	12.41	32.58	100	118	P	H
		5494	110.35	-	-	95.02	35.5	12.41	32.58	100	118	A	H
		5414	55.27	-18.73	74	40.34	35.19	12.36	32.62	314	85	P	V
		5466.8	55.14	-13.16	68.3	40.11	35.24	12.39	32.6	314	85	P	V
		5416.88	45.38	-8.62	54	30.45	35.19	12.36	32.62	314	85	A	V
		5494	115.41	-	-	100.33	35.25	12.41	32.58	314	85	P	V
		5494	107.03	-	-	91.95	35.25	12.41	32.58	314	85	A	V
802.11ax HE20 RU52 Right CH 140 5700MHz		5760.44	57.39	-10.91	68.3	41.67	35.78	12.69	32.75	100	116	P	H
		5704	116.21	-	-	100.61	35.67	12.63	32.7	100	116	P	H
		5704	108.08	-	-	92.48	35.67	12.63	32.7	100	116	A	H
		5736.52	58.52	-9.78	68.3	43.27	35.31	12.67	32.73	300	89	P	V
		5710	117.03	-	-	101.78	35.34	12.63	32.72	300	89	P	V
		5710	108.9	-	-	93.65	35.34	12.63	32.72	300	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz

WIFI 802.11ax HE20 RU106 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 RU106 Left CH 100 5500MHz		5418	55.41	-18.59	74	40.21	35.46	12.36	32.62	100	113	P	H
		5469.52	55.53	-12.77	68.3	40.25	35.49	12.39	32.6	100	113	P	H
		5418.16	45.27	-8.73	54	30.07	35.46	12.36	32.62	100	113	A	H
		5494	114.48	-	-	99.15	35.5	12.41	32.58	100	113	P	H
		5494	105.74	-	-	90.41	35.5	12.41	32.58	100	113	A	H
		5456.56	55.53	-18.47	74	40.53	35.22	12.38	32.6	314	82	P	V
		5461.84	54.49	-13.81	68.3	39.49	35.22	12.38	32.6	314	82	P	V
		5459.6	45.08	-8.92	54	30.08	35.22	12.38	32.6	314	82	A	V
		5494	113.39	-	-	98.31	35.25	12.41	32.58	314	82	P	V
	5494	106.11	-	-	91.03	35.25	12.41	32.58	314	82	A	V	
802.11ax HE20 RU106 Right CH 140 5700MHz		5725.96	61.4	-6.9	68.3	45.75	35.72	12.65	32.72	100	114	P	H
		5704	112.94	-	-	97.34	35.67	12.63	32.7	100	114	P	H
		5704	105.6	-	-	90	35.67	12.63	32.7	100	114	A	H
		5725.24	60.16	-8.14	68.3	44.91	35.32	12.65	32.72	288	79	P	V
		5704	112.14	-	-	96.87	35.34	12.63	32.7	288	79	P	V
		5704	105.21	-	-	89.94	35.34	12.63	32.7	288	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz

WIFI 802.11ax HE40 RU242 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 RU242 Left CH 102 5510MHz		5457.36	61.16	-12.84	74	45.9	35.48	12.38	32.6	100	114	P	H
		5469.68	63.56	-4.74	68.3	48.28	35.49	12.39	32.6	100	114	P	H
		5458.16	45.64	-8.36	54	30.38	35.48	12.38	32.6	100	114	A	H
		5506	110.11	-	-	94.76	35.51	12.42	32.58	100	114	P	H
		5506	101.54	-	-	86.19	35.51	12.42	32.58	100	114	A	H
		5740.2	57.25	-11.05	68.3	41.56	35.75	12.67	32.73	100	114	P	H
		5458.32	62.02	-11.98	74	47.02	35.22	12.38	32.6	330	87	P	V
		5466.96	58.38	-9.92	68.3	43.35	35.24	12.39	32.6	330	87	P	V
		5458.48	45.57	-8.43	54	30.57	35.22	12.38	32.6	330	87	A	V
		5494	109.21	-	-	94.13	35.25	12.41	32.58	330	87	P	V
		5494	101.6	-	-	86.52	35.25	12.41	32.58	330	87	A	V
		5741.32	56.47	-11.83	68.3	41.22	35.31	12.67	32.73	330	87	P	V
802.11ax HE40 RU242 Right CH134 5670MHz		5413.36	55.21	-18.79	74	40.02	35.45	12.36	32.62	100	114	P	H
		5461.68	54.45	-13.85	68.3	39.19	35.48	12.38	32.6	100	114	P	H
		5459.44	45.13	-8.87	54	29.87	35.48	12.38	32.6	100	114	A	H
		5674	109.94	-	-	94.4	35.65	12.58	32.69	100	114	P	H
		5674	102.06	-	-	86.52	35.65	12.58	32.69	100	114	A	H
		5743.72	61.27	-7.03	68.3	45.58	35.75	12.67	32.73	100	114	P	H
		5457.68	54.85	-19.15	74	39.85	35.22	12.38	32.6	329	82	P	V
		5462.32	54.28	-14.02	68.3	39.28	35.22	12.38	32.6	329	82	P	V
		5459.28	44.89	-9.11	54	29.89	35.22	12.38	32.6	329	82	A	V
		5686	108.83	-	-	93.58	35.35	12.6	32.7	329	82	P	V
	5686	101.55	-	-	86.3	35.35	12.6	32.7	329	82	A	V	
	5738.52	61.52	-6.78	68.3	46.27	35.31	12.67	32.73	329	82	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz
WIFI 802.11ax HE80 RU484 Left/Right(Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 RU484 Left CH 106 5530MHz		5458	59.6	-14.4	74	44.34	35.48	12.38	32.6	100	114	P	H
		5461.04	62.96	-5.34	68.3	47.7	35.48	12.38	32.6	100	114	P	H
		5456.08	46.06	-7.94	54	30.8	35.48	12.38	32.6	100	114	A	H
		5506	105.47	-	-	90.12	35.51	12.42	32.58	100	114	P	H
		5506	97.25	-	-	81.9	35.51	12.42	32.58	100	114	A	H
		5755.16	56.87	-11.43	68.3	41.18	35.75	12.69	32.75	100	114	P	H
		5457.52	60.17	-13.83	74	45.17	35.22	12.38	32.6	283	83	P	V
		5467.28	64.63	-3.67	68.3	49.6	35.24	12.39	32.6	283	83	P	V
		5456.08	45.65	-8.35	54	30.65	35.22	12.38	32.6	283	83	A	V
		5506	105.1	-	-	89.99	35.27	12.42	32.58	283	83	P	V
		5506	96.77	-	-	81.66	35.27	12.42	32.58	283	83	A	V
	5748.6	56.91	-11.39	68.3	41.66	35.31	12.67	32.73	283	83	P	V	
802.11ax HE80 RU484 Right CH 122 5610MHz		5437.36	56.52	-17.48	74	41.29	35.47	12.37	32.61	100	108	P	H
		5462.64	54.99	-13.31	68.3	39.72	35.48	12.39	32.6	100	108	P	H
		5459.98	45.38	-8.62	54	30.12	35.48	12.38	32.6	100	108	A	H
		5626	108.01	-	-	92.57	35.59	12.51	32.66	100	108	P	H
		5626	100.02	-	-	84.58	35.59	12.51	32.66	100	108	A	H
		5752.44	58.41	-9.89	68.3	42.72	35.75	12.69	32.75	100	108	P	H
		5389.52	56.45	-17.55	74	41.59	35.16	12.33	32.63	307	81	P	V
		5468.56	55.05	-13.25	68.3	40.02	35.24	12.39	32.6	307	81	P	V
		5459.92	45.21	-8.79	54	30.21	35.22	12.38	32.6	307	81	A	V
		5626	109.98	-	-	94.75	35.38	12.51	32.66	307	81	P	V
	5626	100.47	-	-	85.24	35.38	12.51	32.66	307	81	A	V	
	5727.16	58.39	-9.91	68.3	43.14	35.32	12.65	32.72	307	81	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz

WIFI 802.11ax HE160 RU996 Left/Right (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 RU996 Left CH 114 5570MHz		5441.68	65.97	-8.03	74	50.74	35.47	12.37	32.61	100	119	P	H
		5461.52	65	-3.3	68.3	49.74	35.48	12.38	32.6	100	119	P	H
		5456.24	47.71	-6.29	54	32.45	35.48	12.38	32.6	100	119	A	H
		5554	102.16	-	-	86.77	35.55	12.45	32.61	100	119	P	H
		5554	94.26	-	-	78.87	35.55	12.45	32.61	100	119	A	H
		5727.08	62.49	-5.81	68.3	46.84	35.72	12.65	32.72	100	119	P	H
		5442.32	66.25	-7.75	74	51.28	35.21	12.37	32.61	297	82	P	V
		5468.08	63	-5.3	68.3	47.97	35.24	12.39	32.6	297	82	P	V
		5455.92	47.6	-6.4	54	32.6	35.22	12.38	32.6	297	82	A	V
		5566	103.43	-	-	88.25	35.34	12.47	32.63	297	82	P	V
		5566	93.53	-	-	78.35	35.34	12.47	32.63	297	82	A	V
		5727.48	64.43	-3.87	68.3	49.18	35.32	12.65	32.72	297	82	P	V
802.11ax HE160 RU996 Right CH 114 5570MHz		5446.32	63.37	-10.63	74	48.13	35.47	12.38	32.61	100	118	P	H
		5461.04	60.68	-7.62	68.3	45.42	35.48	12.38	32.6	100	118	P	H
		5441.36	46.83	-7.17	54	31.6	35.47	12.37	32.61	100	118	A	H
		5638	102.3	-	-	86.83	35.6	12.54	32.67	100	118	P	H
		5638	94.31	-	-	78.84	35.6	12.54	32.67	100	118	A	H
		5727.16	65.19	-3.11	68.3	49.54	35.72	12.65	32.72	100	118	P	H
		5411.28	64.46	-9.54	74	49.56	35.17	12.35	32.62	319	84	P	V
		5465.68	61.16	-7.14	68.3	46.13	35.24	12.39	32.6	319	84	P	V
		5441.36	46.85	-7.15	54	31.88	35.21	12.37	32.61	319	84	A	V
		5572	101.9	-	-	86.72	35.34	12.47	32.63	319	84	P	V
		5572	94.39	-	-	79.21	35.34	12.47	32.63	319	84	A	V
		5726.2	61.81	-6.49	68.3	46.56	35.32	12.65	32.72	319	84	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5722	109.38	-	-	93.75	35.7	12.65	32.72	300	0	P	H
		5722	102.21	-	-	86.58	35.7	12.65	32.72	300	0	A	H
		5716	109.24	-	-	93.99	35.34	12.63	32.72	100	0	P	V
		5716	101.04	-	-	85.79	35.34	12.63	32.72	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11439.44	45.43	-28.57	74	47.81	39.16	18.95	60.49	300	0	P	H
		11439.44	45.92	-28.08	74	48.91	38.55	18.95	60.49	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - Straddle Channel

WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5728	111.43	-	-	95.78	35.72	12.65	32.72	300	0	P	H
HE20		5728	103.91	-	-	88.26	35.72	12.65	32.72	300	0	A	H
CH 144		5722	108.85	-	-	93.6	35.32	12.65	32.72	100	0	P	V
5720MHz		5722	101.62	-	-	86.37	35.32	12.65	32.72	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2C - Straddle Channel

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11439.44	46.02	-27.98	74	48.4	39.16	18.95	60.49	300	0	P	H
HE20		11439.44	44.87	-29.13	74	47.86	38.55	18.95	60.49	100	360	P	V
CH 144													
5720MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - Straddle Channel
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5704	107.36	-	-	91.76	35.67	12.63	32.7	300	0	P	H
HE20		5704	100.21	-	-	84.61	35.67	12.63	32.7	300	0	A	H
CH 142		5716	105.69	-	-	90.44	35.34	12.63	32.72	100	0	P	V
5710MHz		5716	97.58	-	-	82.33	35.34	12.63	32.72	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2C - Straddle Channel
WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11419.42	45.29	-28.71	74	47.69	39.15	18.94	60.49	300	0	P	H
HE20		11419.42	44.81	-29.19	74	47.82	38.54	18.94	60.49	100	360	P	V
CH 142		11419.42	44.81	-29.19	74	47.82	38.54	18.94	60.49	100	360	P	V
5710MHz		11419.42	44.81	-29.19	74	47.82	38.54	18.94	60.49	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - Straddle Channel

WIFI 802.11ax HE80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5698	105.01	-	-	89.44	35.67	12.6	32.7	300	0	P	H
HE80		5698	97.32	-	-	81.75	35.67	12.6	32.7	300	0	A	H
CH 138		5686	105.87	-	-	90.62	35.35	12.6	32.7	100	0	P	V
5690MHz		5686	97.41	-	-	82.16	35.35	12.6	32.7	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2C - Straddle Channel

WIFI 802.11ax HE80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11379.38	44.77	-29.23	74	47.22	39.13	18.91	60.49	300	0	P	H
CH 138		11379.38	44.29	-29.71	74	47.36	38.51	18.91	60.49	100	360	P	V
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802. 11ax80 RU484_Left CH42_Tx (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802. 11ax80 RU484_Left CH42_Tx LF		30	16.08	-23.92	40	23.05	25.15	0.58	32.7	-	-	P	H
		124.09	11.24	-32.26	43.5	25.27	17.02	1.8	32.85	-	-	P	H
		541.19	21.46	-24.54	46	25.38	24.94	3.78	32.64	-	-	P	H
		639.16	22.61	-23.39	46	25.89	25.26	4.12	32.66	-	-	P	H
		783.69	24.67	-21.33	46	26.73	25.96	4.55	32.57	-	-	P	H
		894.27	26.03	-19.97	46	26.97	26.7	4.87	32.51	126	85	P	H
		30	17.15	-22.85	40	23.77	25.5	0.58	32.7	-	-	P	V
		487.84	21.09	-24.91	46	26.01	24.27	3.59	32.78	-	-	P	V
		584.84	23.18	-22.82	46	26.15	25.62	3.94	32.53	-	-	P	V
		661.47	22.89	-23.11	46	25.57	25.85	4.19	32.72	-	-	P	V
	806	26.23	-19.77	46	27.18	26.94	4.62	32.51	-	-	P	V	
	910.76	26.76	-19.24	46	26.79	27.51	4.92	32.46	163	97	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



For Co-location:

UNII 2A - 5250~5350MHz

WIFI 802.11ax HE160 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
11ax HE160 CH50		5143.36	57.55	-16.45	74	42.96	35.29	12.02	32.72	281	196	P	H
		5144.32	47.45	-6.55	54	32.86	35.29	12.02	32.72	281	196	A	H
	*	5302	92.96	-	-	78.02	35.38	12.23	32.67	281	196	P	H
		5302	87.29	-	-	72.35	35.38	12.23	32.67	281	196	A	H
		5354.6	56.89	-17.11	74	41.82	35.42	12.29	32.64	281	196	P	H
	!	5354.7	46.72	-7.28	54	31.65	35.42	12.29	32.64	281	196	A	H
		5123.36	59.07	-14.93	74	44.9	34.91	11.99	32.73	278	78	P	V
		5136.8	48.69	-5.31	54	34.52	34.91	11.99	32.73	278	78	A	V
	*	5278	96.13	-	-	81.54	35.06	12.21	32.68	278	78	P	V
		5278	89.73	-	-	75.14	35.06	12.21	32.68	278	78	A	V
	!	5354	56.9	-17.1	74	42.13	35.12	12.29	32.64	278	78	P	V
	!	5354.8	47.22	-6.78	54	32.45	35.12	12.29	32.64	278	78	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2A 5250~5350MHz

WIFI 802.11ax HE160 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
11ax HE160 CH50		10518.52	46.66	-21.64	68.3	50.4	38.67	18.17	60.58	100	360	P	H
		10518.52	44.36	-23.94	68.3	48.89	37.88	18.17	60.58	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT 2.0 CH78 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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)
BT 2.0 CH 78 2480MHz		2486.5	59.71	-14.29	74	53.21	31.7	8.22	33.42	334	316	P	H
		2486.5	34.95	-19.05	54	-	-	-	-	-	-	A	H
		2480	97.65	-	-	91.06	31.8	8.22	33.43	334	316	P	H
		2480	72.89	-	-	-	-	-	-	-	-	A	H
		2483.68	57.61	-16.39	74	49.96	32.86	8.22	33.43	313	21	P	V
		2483.68	32.85	-21.15	54	-	-	-	-	-	-	A	V
		2480	101.3	-	-	93.65	32.86	8.22	33.43	313	21	P	V
		2480	76.54	-	-	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE40 CH 09 2452MHz and a Remark section.



2.4GHz 2400~2483.5MHz

BT 2.0 CH78&WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT 2.0 CH 78 & 802.11ax HE40 CH 09 2452MHz		4902	40.19	-33.81	74	54.57	35.06	11.64	61.08	100	360	P	H
		4960	40.11	-33.89	74	54.3	35.14	11.71	61.04	100	360	P	H
		7356	43.08	-30.92	74	52.52	36.87	14.75	61.06	100	360	P	H
		7440	43.56	-30.44	74	52.84	36.89	14.88	61.05	100	360	P	H
		4902	39.85	-34.15	74	54.47	34.82	11.64	61.08	100	360	P	V
		4960	40.32	-33.68	74	54.84	34.81	11.71	61.04	100	360	P	V
		7356	42.76	-31.24	74	52.65	36.42	14.75	61.06	100	360	P	V
		7440	41.54	-32.46	74	51.24	36.47	14.88	61.05	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path 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) + Path 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”.

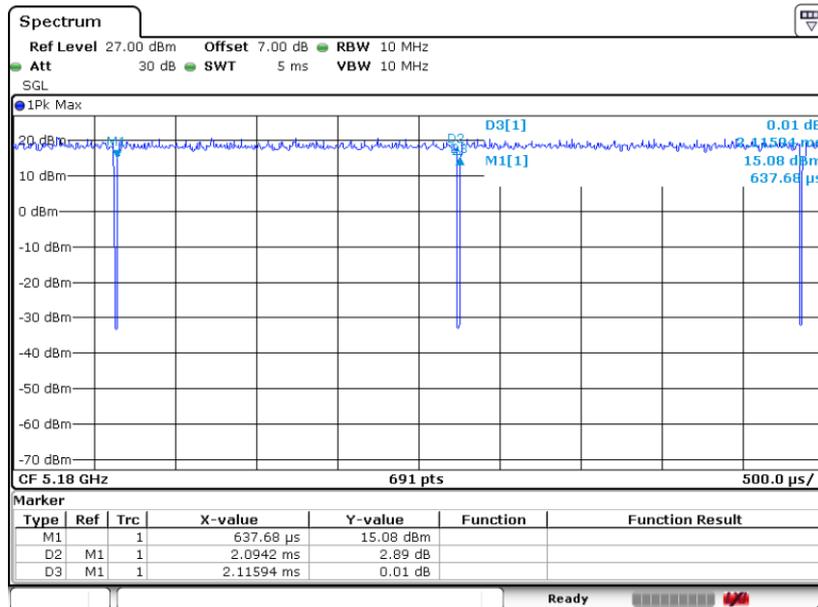


Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	98.97	-	-	10Hz
1+2	802.11ax HE20	100	-	-	10Hz
1+2	802.11ax HE40	100	-	-	10Hz
1+2	802.11ax HE80	100	-	-	10Hz
1+2	802.11ax HE160	100	-	-	10Hz

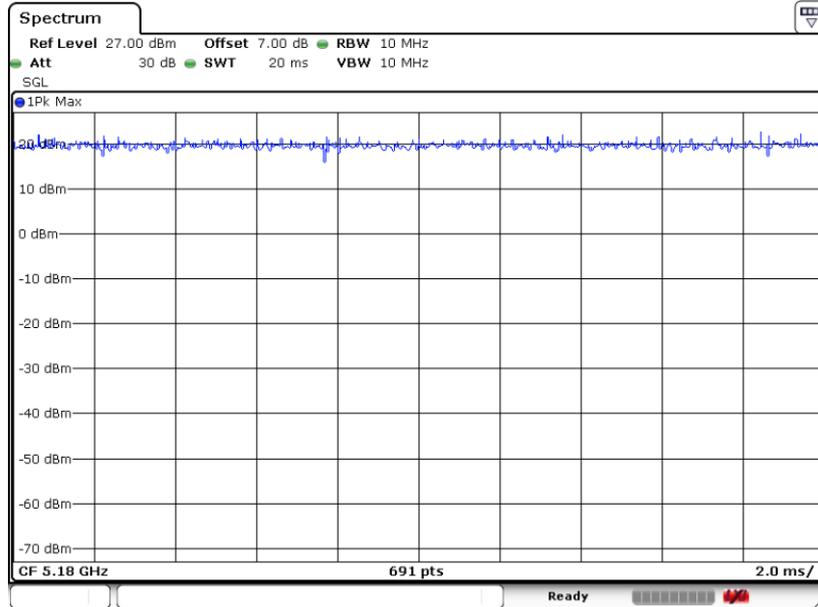
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802.11a

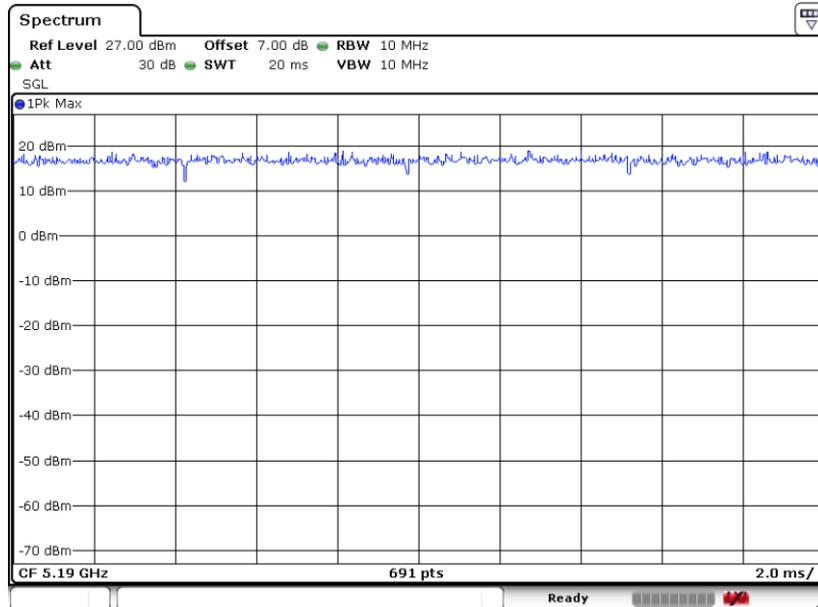




802.11ax HE20

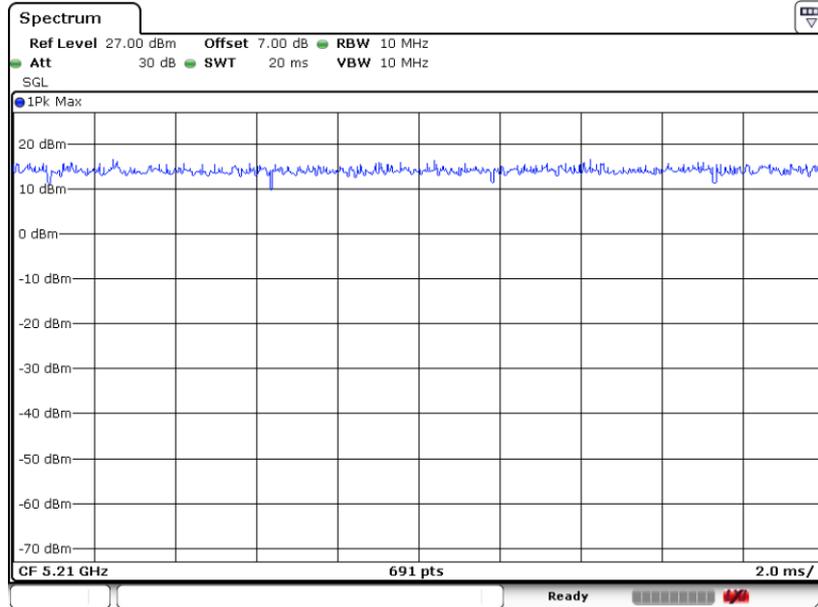


802.11ax HE40





802.11ax HE80



802.11ax HE160

