



FCC RADIO TEST REPORT

FCC ID : J9CQSIP7180P
Equipment : 7c Modular Platform
Brand Name : Qualcomm
Model Name : QSIP7180P
Applicant : Qualcomm Technologies, Inc.
5775 Morehouse Dr.San Diego, CA
92121-1714 (USA)
Manufacturer : Qualcomm Technologies, Inc.
5775 Morehouse Dr.San Diego, CA
92121-1714 (USA)
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jun. 08, 2020 and testing was started from Jun. 11, 2020 and completed on Aug. 04, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example.....	11
3 Test Result	12
3.1 26dB & 99% Occupied Bandwidth Measurement	12
3.2 Maximum Conducted Output Power Measurement	14
3.3 Power Spectral Density Measurement	16
3.4 Unwanted Emissions Measurement	19
3.5 Automatically Discontinue Transmission	24
3.6 Antenna Requirements.....	26
4 List of Measuring Equipment.....	27
5 Uncertainty of Evaluation	29
Appendix A. Conducted Test Results	
Appendix B. Radiated Spurious Emission	
Appendix C. Radiated Spurious Emission Plots	
Appendix D. Duty Cycle Plots	
Appendix E. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR042002-06D	01	Initial issue of report	Sep. 17, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.24 dB at 5150.000 MHz
-	15.207	AC Conducted Emission	Not Required	-
3.5	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: Not required means after assessing, test items are not necessary to carry out.

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.

Reviewed by: Wii Chang

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac.

Antenna Information								
Antenna No.	Brand	Model	Antenna Net gain	Frequency Range (MHz)	Cable Loss (dBi)	Ant. Type	Connector Type	Cable Length (mm)
1	WNC	81.EBJ15.005	3.00	2400-2500 MHz	1.15	PIFA	IPEX	300
			2.56	5150-5350 MHz	1.7			
			4.76	5470-5725MHz	1.74			
			4.76	5725-5825 MHz	1.79			
2	WNC	81.EBJ15.005	3.62	2400-2500 MHz	1.15	PIFA	IPEX	300
			3.08	5150-5350 MHz	1.7			
			3.31	5470-5725MHz	1.74			
			2.42	5725-5825 MHz	1.79			

Remark:

1. Above antenna gains of antenna are Total (H+V).
2. For Bluetooth mode was fixed transmission on Chain (0)
3. The maximum gain was chosen for test.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	DFS02-HY

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH15-HY	

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: 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 two degrees (0 and 90). The worst cases (Degree 0) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (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 Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

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

Note:

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

2.2 Test Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

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

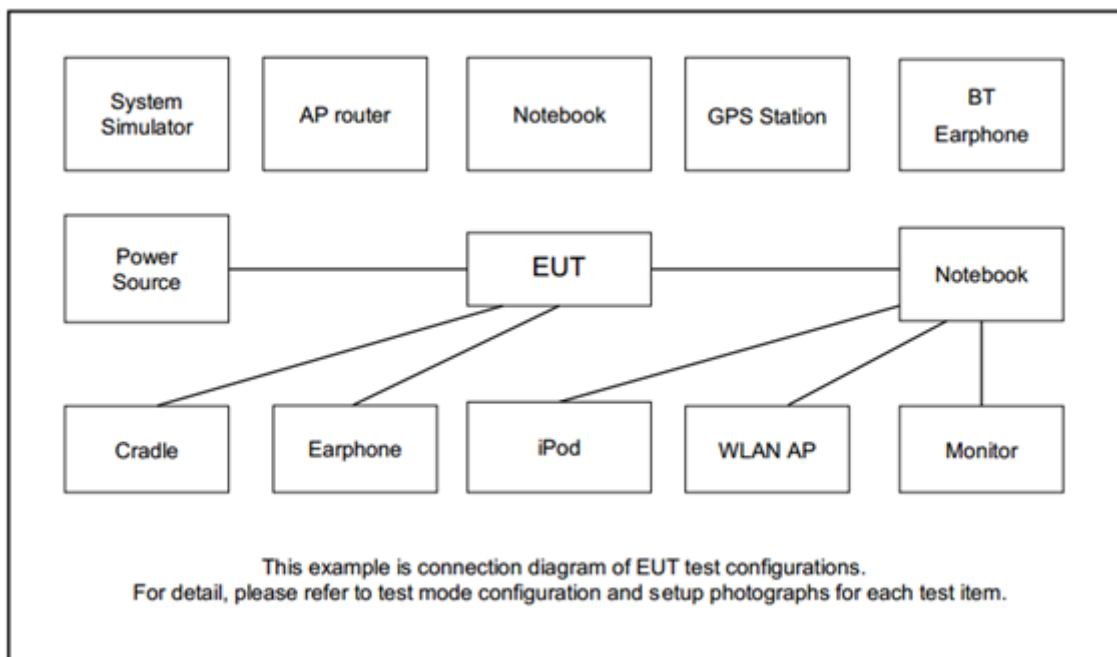
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-
Straddle		-	-	138

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Power Supply	GW Instek	GPE-2323	N/A	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT v 4.0.00156.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



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 and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

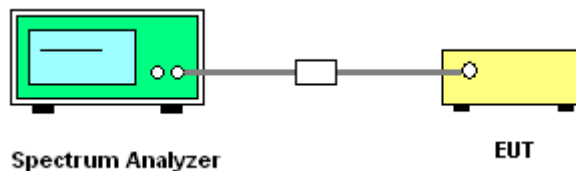
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

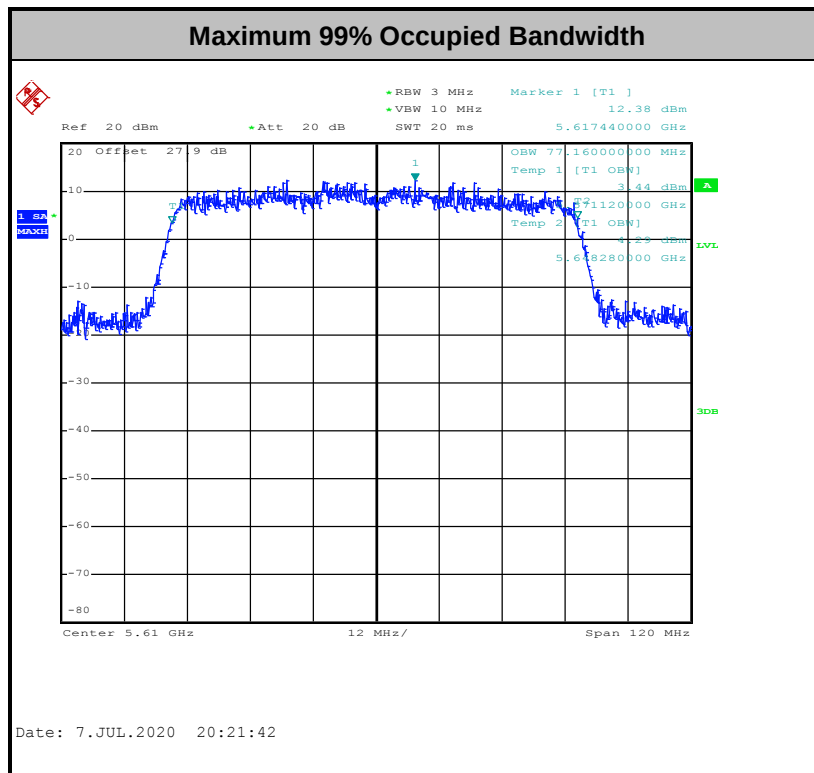
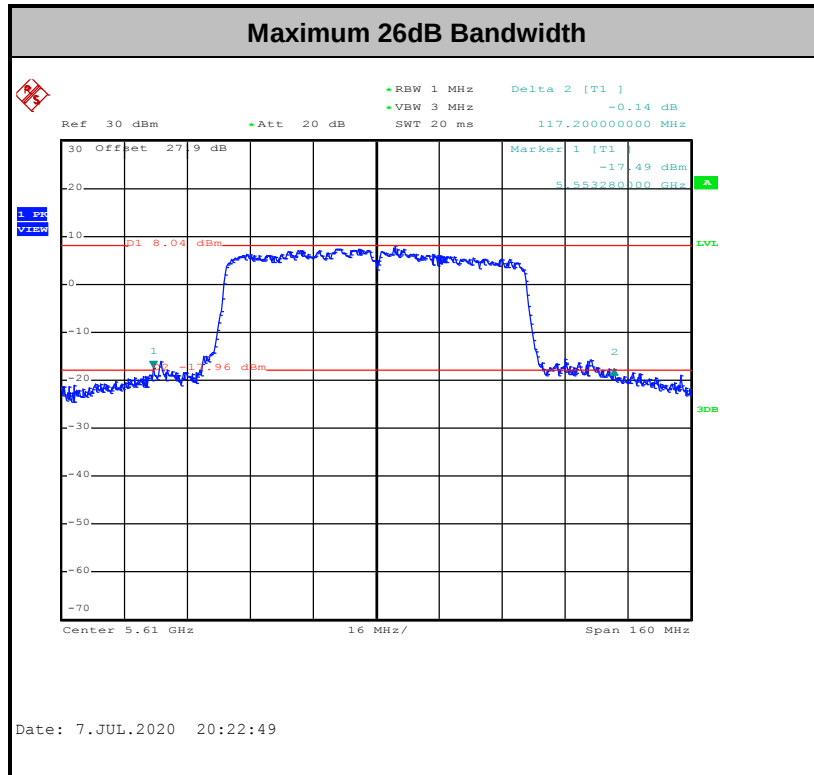
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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 1-5% of the emission bandwidth 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 the 5.15–5.25 GHz bands:

- 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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

- The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

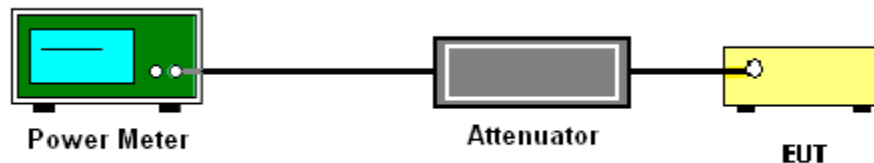
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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 the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz 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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Method SA-2

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

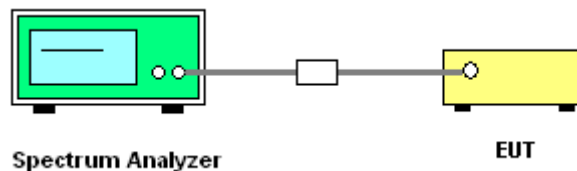
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

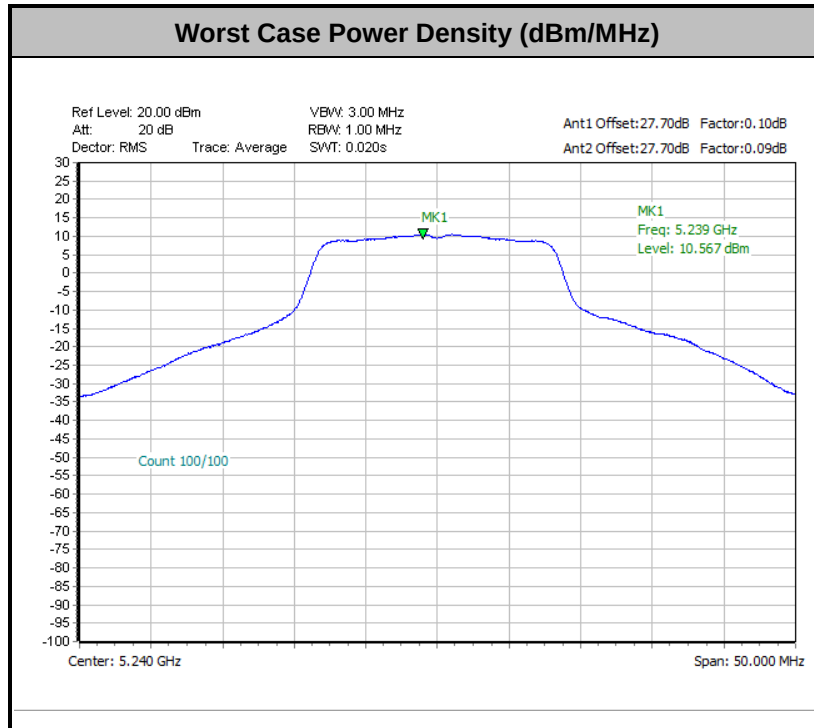
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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



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

(3) KDB789033 D02 v02r01 G)2)c)

- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
- (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

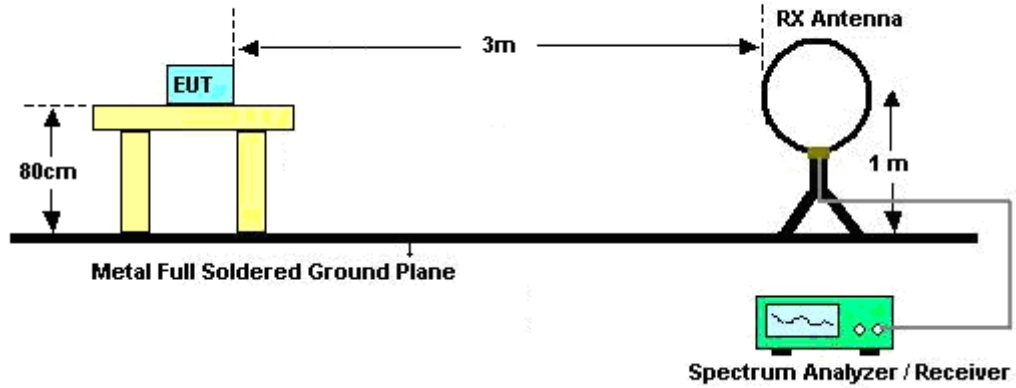
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

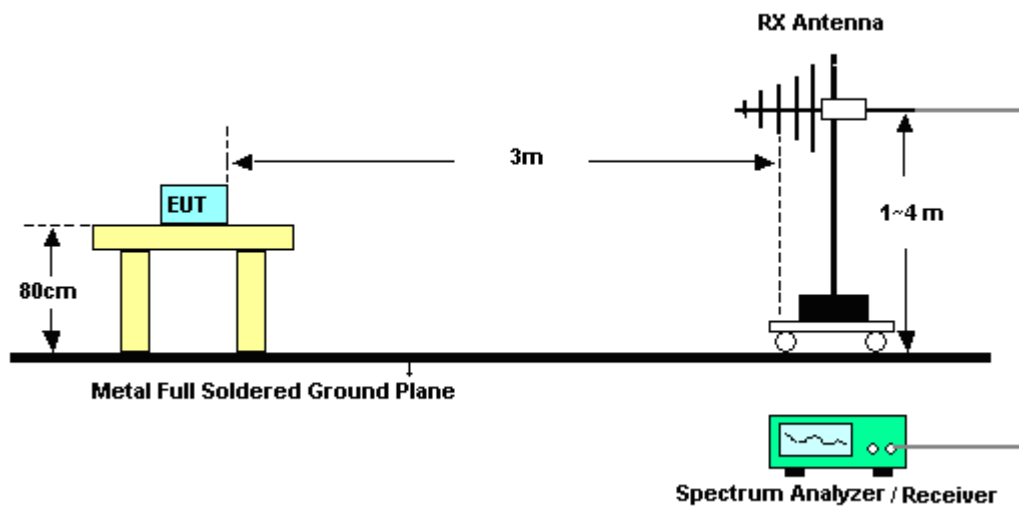
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

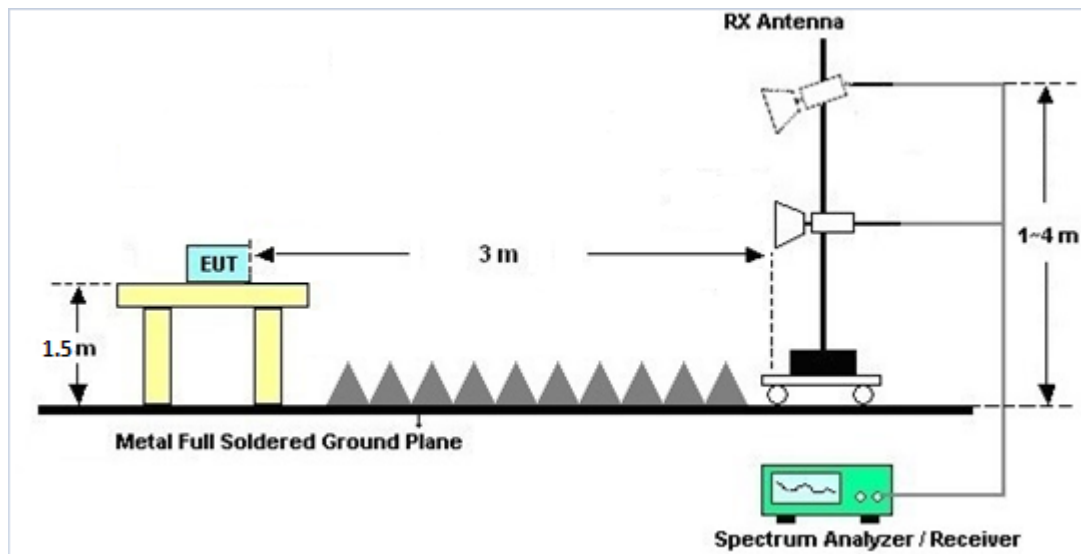
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.5 Automatically Discontinue Transmission

3.5.1 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.

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Result of Automatically Discontinue Transmission

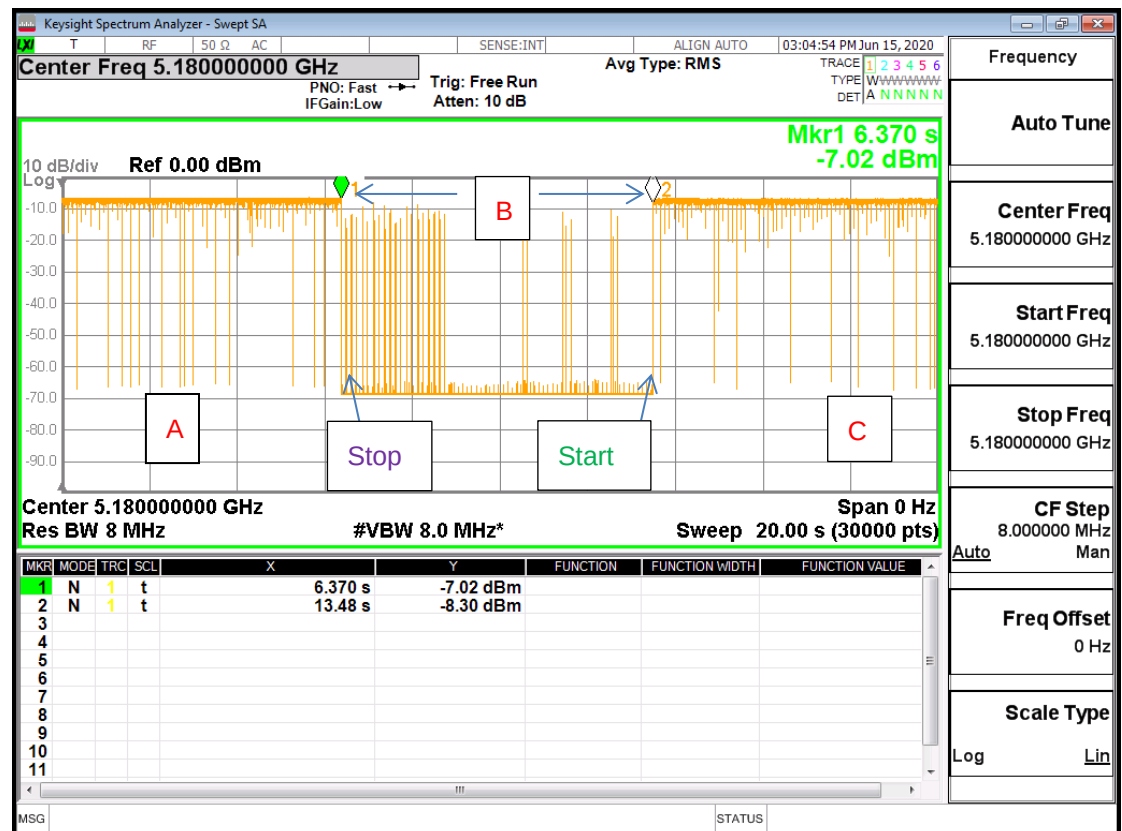
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz


Note: The control / signalling information during the period B is precluded.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)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.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band I	3.08	3.08	6.09	6.09	0.09	0.09
Band II	3.08	3.08	6.09	6.09	0.09	0.09
Band III	4.76	4.76	7.77	7.77	1.77	1.77

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Jun. 11, 2020~ Aug. 04, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Jun. 11, 2020~ Aug. 04, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Jun. 11, 2020~ Aug. 04, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Aug. 22, 2019	Jun. 11, 2020~ Aug. 04, 2020	Aug. 21, 2020	Conducted (TH05-HY)
Power Supply	GW Instek	SPS-606	GES84293 1	NA	Aug. 19, 2019	Jun. 11, 2020~ Aug. 04, 2020	Aug. 18, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY560704 12	10Hz~7GHz	Aug. 27, 2019	Jun. 15, 2020	Aug. 26, 2020	Conducted (DFS02-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Jun. 27, 2020~ Jul. 17, 2020	Jan. 08, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&008 00N1D01N-06	41912&05	30MHz to 1GHz	Feb. 09, 2020	Jun. 27, 2020~ Jul. 17, 2020	Feb. 08, 2021	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2019	Jun. 27, 2020~ Jul. 17, 2020	Dec. 26, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-162 0	1-18GHz	Oct. 28, 2019	Jun. 27, 2020~ Jul. 17, 2020	Oct. 27, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Jun. 27, 2020~ Jul. 17, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	171000180 0055006	1GHz~18GHz	May 07, 2020	Jun. 27, 2020~ Jul. 17, 2020	May 06, 2021	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2019	Jun. 27, 2020~ Jul. 17, 2020	Aug. 22, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Jun. 27, 2020~ Jul. 17, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY541300 85	20MHz~8.4GHz	Nov. 01, 2019	Jun. 27, 2020~ Jul. 17, 2020	Oct. 31, 2020	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	May 04, 2020	Jun. 27, 2020~ Jul. 17, 2020	May 03, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 27, 2020~ Jul. 17, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 27, 2020~ Jul. 17, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Jun. 27, 2020~ Jul. 17, 2020	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Jun. 27, 2020~ Jul. 17, 2020	Mar. 11, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/ 4	30M-18G	Apr. 14, 2020	Jun. 27, 2020~ Jul. 17, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4 PE	30M-18G	Apr. 14, 2020	Jun. 27, 2020~ Jul. 17, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY37710/ 4	30M-18G	Apr. 17, 2020	Jun. 27, 2020~ Jul. 17, 2020	Apr. 16, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	Jun. 27, 2020~ Jul. 17, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	Jun. 27, 2020~ Jul. 17, 2020	Feb. 24, 2021	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN4	1.53G Low Pass	Jul. 04, 2019	Jun. 27, 2020~ Jul. 02, 2020	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN4	1.53G Low Pass	Jul. 03, 2020	Jul. 03, 2020~ Jul. 17, 2020	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5 -6750-18000-40 ST	SN6	6.75GHz High Pass Filter	Jul. 04, 2019	Jun. 27, 2020~ Jul. 02, 2020	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5 -6750-18000-40 ST	SN6	6.75GHz High Pass Filter	Jul. 03, 2020	Jul. 03, 2020~ Jul. 17, 2020	Jul. 02, 2021	Radiation (03CH15-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kathy Chen / Kai Liao / Shiming Liu	Temperature:	23.2~24.1	°C
Test Date:	2020/6/11~2020/8/4	Relative Humidity:	52.5~53.8	%

TEST RESULTS DATA
26dB and 99% OBW

Band I 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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	36	5180	17.10	16.85	27.08	27.65	-	-	22.27	22.27	
11a	6Mbps	2	44	5220	16.95	16.85	26.00	25.90	-	-	22.27	22.27	
11a	6Mbps	2	48	5240	16.90	16.85	26.60	26.80	-	-	22.27	22.27	
HT20	MCS0	2	36	5180	17.90	17.80	25.70	25.30	-	-	22.50	22.50	
HT20	MCS0	2	44	5220	18.05	17.95	28.45	28.55	-	-	22.54	22.54	
HT20	MCS0	2	48	5240	18.05	18.05	28.40	28.45	-	-	22.56	22.56	
HT40	MCS0	2	38	5190	36.70	36.50	41.85	41.85	-	-	23.01	23.01	
HT40	MCS0	2	46	5230	37.00	37.00	54.16	55.03	-	-	23.01	23.01	
VHT80	MCS0	2	42	5210	76.92	76.68	85.44	86.95	-	-	23.01	23.01	

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	17.40	17.90	20.67	23.91		6.09			Pass
11a	6Mbps	2	44	5220	18.00	18.40	21.21	23.91		6.09			Pass
11a	6Mbps	2	48	5240	18.00	18.50	21.27	23.91		6.09			Pass
HT20	MCS0	2	36	5180	17.00	18.10	20.60	23.91		6.09			Pass
HT20	MCS0	2	44	5220	17.30	18.20	20.78	23.91		6.09			Pass
HT20	MCS0	2	48	5240	17.60	18.20	20.92	23.91		6.09			Pass
HT40	MCS0	2	38	5190	14.20	15.10	17.68	23.91		6.09			Pass
HT40	MCS0	2	46	5230	17.40	18.10	20.77	23.91		6.09			Pass
VHT20	MCS0	2	36	5180	16.90	18.00	20.50	23.91		6.09			Pass
VHT20	MCS0	2	44	5220	17.10	18.10	20.64	23.91		6.09			Pass
VHT20	MCS0	2	48	5240	17.50	18.10	20.82	23.91		6.09			Pass
VHT40	MCS0	2	38	5190	14.10	15.00	17.58	23.91		6.09			Pass
VHT40	MCS0	2	46	5230	17.30	18.00	20.67	23.91		6.09			Pass
VHT80	MCS0	2	42	5210	12.40	12.80	15.61	23.91		6.09			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180			9.53	10.91	6.09			Pass	
11a	6Mbps	2	44	5220			10.51	10.91	6.09			Pass	
11a	6Mbps	2	48	5240			10.57	10.91	6.09			Pass	
HT20	MCS0	2	36	5180			9.43	10.91	6.09			Pass	
HT20	MCS0	2	44	5220			9.62	10.91	6.09			Pass	
HT20	MCS0	2	48	5240			9.65	10.91	6.09			Pass	
HT40	MCS0	2	38	5190			3.72	10.91	6.09			Pass	
HT40	MCS0	2	46	5230			6.90	10.91	6.09			Pass	
VHT80	MCS0	2	42	5210			-0.90	10.91	6.09			Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	52	5260	17.05	17.00	27.60	27.80	23.30		29.30		23.98		
11a	6Mbps	2	60	5300	16.90	17.00	26.80	27.00	23.28		29.28		23.98		
11a	6Mbps	2	64	5320	16.75	16.90	25.00	26.80	23.24		29.24		23.98		
HT20	MCS0	2	52	5260	18.05	18.10	28.80	30.40	23.56		29.56		23.98		
HT20	MCS0	2	60	5300	18.05	18.05	27.55	29.95	23.56		29.56		23.98		
HT20	MCS0	2	64	5320	17.95	18.15	25.90	30.10	23.54		29.54		23.98		
HT40	MCS0	2	54	5270	36.80	36.90	51.61	52.20	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.60	36.60	42.12	42.12	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.80	76.56	84.96	84.08	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	52	5260	18.10	18.20	21.16	23.89		6.09		30	Pass
11a	6Mbps	2	60	5300	18.10	18.40	21.26	23.89		6.09		30	Pass
11a	6Mbps	2	64	5320	16.90	17.60	20.27	23.89		6.09		30	Pass
HT20	MCS0	2	52	5260	17.80	18.10	20.96	23.89		6.09		30	Pass
HT20	MCS0	2	60	5300	17.80	18.30	21.07	23.89		6.09		30	Pass
HT20	MCS0	2	64	5320	16.90	17.60	20.27	23.89		6.09		30	Pass
HT40	MCS0	2	54	5270	17.70	18.10	20.91	23.89		6.09		30	Pass
HT40	MCS0	2	62	5310	10.70	11.10	13.91	23.89		6.09		30	Pass
VHT20	MCS0	2	52	5260	17.70	18.00	20.86	23.89		6.09		30	Pass
VHT20	MCS0	2	60	5300	17.70	18.20	20.97	23.89		6.09		30	Pass
VHT20	MCS0	2	64	5320	16.80	17.50	20.17	23.89		6.09		30	Pass
VHT40	MCS0	2	54	5270	17.60	18.00	20.81	23.89		6.09		30	Pass
VHT40	MCS0	2	62	5310	10.60	11.00	13.81	23.89		6.09		30	Pass
VHT80	MCS0	2	58	5290	11.20	11.80	14.52	23.89		6.09		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	52	5260			10.39	10.91	6.09			Pass	
11a	6Mbps	2	60	5300			10.35	10.91	6.09		Pass		
11a	6Mbps	2	64	5320			9.20	10.91	6.09		Pass		
HT20	MCS0	2	52	5260			9.50	10.91	6.09		Pass		
HT20	MCS0	2	60	5300			9.49	10.91	6.09		Pass		
HT20	MCS0	2	64	5320			8.68	10.91	6.09		Pass		
HT40	MCS0	2	54	5270			6.95	10.91	6.09		Pass		
HT40	MCS0	2	62	5310			-0.16	10.91	6.09		Pass		
VHT80	MCS0	2	58	5290			-2.46	10.91	6.09		Pass		

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	N _{Tx}	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	2	100	5500	16.85	16.85	24.80	24.80	23.27		29.27		23.98		----	----
11a	6Mbps	2	116	5580	16.75	16.85	24.80	26.70	23.24		29.24		23.98		----	----
11a	6Mbps	2	140	5700	16.75	16.85	25.10	26.00	23.24		29.24		23.98		----	----
HT20	MCS0	2	100	5500	17.90	18.00	26.35	27.40	23.53		29.53		23.98		----	----
HT20	MCS0	2	116	5580	17.90	18.00	26.70	29.20	23.53		29.53		23.98		----	----
HT20	MCS0	2	140	5700	17.95	17.95	25.75	26.50	23.54		29.54		23.98		----	----
HT40	MCS0	2	102	5510	36.70	36.60	42.30	42.00	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.70	37.10	50.39	59.22	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.60	36.90	41.76	50.58	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.80	76.56	84.58	83.84	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.92	77.16	84.50	117.20	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	N _{Tx}	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	2	144	5720	13.50	13.55	17.25	18.25	22.30		28.30		23.37		2.45	2.5
HT20	MCS0	2	144	5720	14.05	14.15	18.55	19.60	22.48		28.48		23.68		2.55	2.45
HT40	MCS0	2	142	5710	33.50	33.60	36.06	37.14	23.98		30.00		23.98		2.55	2.52
VHT80	MCS0	2	138	5690	73.64	73.88	78.84	98.68	23.98		30.00		23.98		2.6	2.6

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	100	5500	17.50	18.00	20.77	22.21		7.77		30	Pass
11a	6Mbps	2	116	5580	16.80	16.80	19.81	22.21		7.77		30	Pass
11a	6Mbps	2	140	5700	17.90	17.60	20.76	22.21		7.77		30	Pass
HT20	MCS0	2	100	5500	17.50	18.00	20.77	22.21		7.77		30	Pass
HT20	MCS0	2	116	5580	17.80	17.70	20.76	22.21		7.77		30	Pass
HT20	MCS0	2	140	5700	16.60	16.20	19.41	22.21		7.77		30	Pass
HT40	MCS0	2	102	5510	15.30	16.10	18.73	22.21		7.77		30	Pass
HT40	MCS0	2	110	5550	18.10	17.80	20.96	22.21		7.77		30	Pass
HT40	MCS0	2	134	5670	17.60	17.20	20.41	22.21		7.77		30	Pass
VHT20	MCS0	2	100	5500	17.10	17.60	20.37	22.21		7.77		30	Pass
VHT20	MCS0	2	116	5580	17.40	17.30	20.36	22.21		7.77		30	Pass
VHT20	MCS0	2	140	5700	16.50	16.10	19.31	22.21		7.77		30	Pass
VHT40	MCS0	2	102	5510	15.20	16.00	18.63	22.21		7.77		30	Pass
VHT40	MCS0	2	110	5550	18.00	17.70	20.86	22.21		7.77		30	Pass
VHT40	MCS0	2	134	5670	17.50	17.10	20.31	22.21		7.77		30	Pass
VHT80	MCS0	2	106	5530	12.50	13.00	15.77	22.21		7.77		30	Pass
VHT80	MCS0	2	122	5610	18.00	17.50	20.77	22.21		7.77		30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	144	5720	17.30	17.10	20.21	21.60	7.77	30	Pass		
HT20	MCS0	2	144	5720	17.70	17.40	20.56	21.91	7.77	30	Pass		
HT40	MCS0	2	142	5710	18.00	17.50	20.77	22.21	7.77	30	Pass		
VHT20	MCS0	2	144	5720	17.60	17.30	20.46	22.21	7.77	30	Pass		
VHT40	MCS0	2	142	5710	17.80	17.20	20.52	22.21	7.77	30	Pass		
VHT80	MCS0	2	138	5690	18.30	17.50	20.93	22.21	7.77	30	Pass		

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	100	5500		8.30	9.23	7.77			Pass		
11a	6Mbps	2	116	5580		8.88	9.23	7.77		Pass			
11a	6Mbps	2	140	5700		9.17	9.23	7.77		Pass			
HT20	MCS0	2	100	5500		8.76	9.23	7.77		Pass			
HT20	MCS0	2	116	5580		9.14	9.23	7.77		Pass			
HT20	MCS0	2	140	5700		7.80	9.23	7.77		Pass			
HT40	MCS0	2	102	5510		4.85	9.23	7.77		Pass			
HT40	MCS0	2	110	5550		7.21	9.23	7.77		Pass			
HT40	MCS0	2	134	5670		6.74	9.23	7.77		Pass			
VHT80	MCS0	2	106	5530		-0.81	9.23	7.77		Pass			
VHT80	MCS0	2	122	5610		4.58	9.23	7.77		Pass			

Band III straddle channel MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	144	5720			8.82	9.23	7.77			Pass	
HT20	MCS0	2	144	5720			8.94	9.23	7.77			Pass	
HT40	MCS0	2	142	5710			6.60	9.23	7.77			Pass	
VHT80	MCS0	2	138	5690			3.89	9.23	7.77			Pass	



Appendix B. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	21.4~22.9°C
		Relative Humidity :	52~61%

Band 1 - 5150~5250MHz

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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149	64.87	-9.13	74	52.71	32.1	10.49	30.43	100	341	P	H
		5150	52.76	-1.24	54	40.6	32.1	10.49	30.43	100	341	A	H
	*	5180	113.09	-	-	101.06	31.92	10.54	30.43	100	341	P	H
	*	5180	105.55	-	-	93.52	31.92	10.54	30.43	100	341	A	H
													H
													H
		5149.76	62.92	-11.08	74	50.76	32.10	10.49	30.43	397	351	P	V
		5150	51.90	-2.1	54	39.74	32.1	10.49	30.43	397	351	A	V
	*	5180	112.34	-	-	100.31	31.92	10.54	30.43	397	351	P	V
	*	5180	105.15	-	-	93.12	31.92	10.54	30.43	397	351	A	V
													V
													V
802.11a CH 44 5220MHz		5150	52.78	-21.22	74	40.62	32.1	10.49	30.43	349	310	P	H
		5149.5	43.9	-10.1	54	31.74	32.1	10.49	30.43	349	310	A	H
	*	5220	113.9	-	-	102.07	31.68	10.58	30.43	349	310	P	H
	*	5220	106.51	-	-	94.68	31.68	10.58	30.43	349	310	A	H
		5457.2	51.44	-22.56	74	39.4	31.74	10.73	30.43	349	310	P	H
		5400.08	42.28	-11.72	54	30.35	31.7	10.66	30.43	349	310	A	H
		5143	52.01	-21.99	74	39.87	32.09	10.48	30.43	386	60	P	V
		5145.34	42.87	-11.13	54	30.72	32.09	10.49	30.43	386	60	A	V
	*	5220	111.15	-	-	99.32	31.68	10.58	30.43	386	60	P	V
	*	5220	103.95	-	-	92.12	31.68	10.58	30.43	386	60	A	V
		5421.64	50.95	-23.05	74	38.99	31.7	10.69	30.43	386	60	P	V
		5421.08	42.06	-11.94	54	30.1	31.7	10.69	30.43	386	60	A	V



802.11a CH 48 5240MHz		5091.52	52.05	-21.95	74	40.09	31.98	10.41	30.43	345	309	P	H
		5150	42.84	-11.16	54	30.68	32.1	10.49	30.43	345	309	A	H
	*	5240	113.85	-	-	102.13	31.56	10.59	30.43	345	309	P	H
	*	5240	106.44	-	-	94.72	31.56	10.59	30.43	345	309	A	H
		5411.28	51.39	-22.61	74	39.45	31.7	10.67	30.43	345	309	P	H
		5399.24	42.35	-11.65	54	30.42	31.7	10.66	30.43	345	309	A	H
		5140.66	51.2	-22.8	74	39.07	32.08	10.48	30.43	345	66	P	V
		5108.42	42.25	-11.75	54	30.23	32.02	10.43	30.43	345	66	A	V
	*	5240	110.15	-	-	98.43	31.56	10.59	30.43	345	66	P	V
	*	5240	102.57	-	-	90.85	31.56	10.59	30.43	345	66	A	V
		5356.12	51.97	-22.03	74	40.32	31.44	10.64	30.43	345	66	P	V
		5418.56	41.96	-12.04	54	30.01	31.7	10.68	30.43	345	66	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	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	53.44	-14.76	68.2	60.03	39.9	14.41	60.9	100	0	P	H
		15540	52.9	-21.1	74	60.33	38	17.28	62.71	400	41	P	H
		15540	42.58	-11.42	54	50.01	38	17.28	62.71	400	41	A	H
													H
		10360	62.93	-5.27	68.2	69.52	39.9	14.41	60.9	294	356	P	V
		15540	58.17	-15.83	74	65.6	38	17.28	62.71	274	46	P	V
		15540	47.64	-6.36	54	55.07	38	17.28	62.71	274	46	A	V
													V
802.11a CH 44 5220MHz		10440	52.44	-15.76	68.2	58.95	40.1	14.41	61.02	100	0	P	H
		15660	49.9	-24.1	74	57.11	37.58	17.34	62.13	100	0	P	H
													H
													H
		10440	62.72	-5.48	68.2	69.23	40.1	14.41	61.02	300	355	P	V
		15660	56.9	-17.1	74	64.11	37.58	17.34	62.13	265	48	P	V
		15660	46.57	-7.43	54	53.78	37.58	17.34	62.13	265	48	A	V
													V
802.11a CH 48 5240MHz		10480	52.49	-15.71	68.2	59.05	40.1	14.41	61.07	100	0	P	H
		15720	47.52	-26.48	74	54.53	37.46	17.37	61.84	100	0	P	H
													H
													H
		10480	62.52	-5.68	68.2	69.08	40.1	14.41	61.07	303	356	P	V
		15720	49.86	-24.14	74	56.87	37.46	17.37	61.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11n HT20 CH 36 5180MHz		5150	60.17	-13.83	74	48.01	32.1	10.49	30.43	351	65	P	H
		5149.76	50.75	-3.25	54	38.59	32.1	10.49	30.43	351	65	A	H
	*	5180	110.51	-	-	98.48	31.92	10.54	30.43	351	65	P	H
	*	5180	101.86	-	-	89.83	31.92	10.54	30.43	351	65	A	H
													H
													H
		5145.08	57.17	-16.83	74	45.02	32.09	10.49	30.43	396	85	P	V
		5149.5	47.62	-6.38	54	35.46	32.1	10.49	30.43	396	85	A	V
	*	5180	109.41	-	-	97.38	31.92	10.54	30.43	396	85	P	V
	*	5180	101.73	-	-	89.7	31.92	10.54	30.43	396	85	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5147.42	51.84	-22.16	74	39.69	32.09	10.49	30.43	350	307	P	H
		5148.98	43.74	-10.26	54	31.58	32.1	10.49	30.43	350	307	A	H
	*	5220	112.05	-	-	100.22	31.68	10.58	30.43	350	307	P	H
	*	5220	104.11	-	-	92.28	31.68	10.58	30.43	350	307	A	H
		5375.16	51.29	-22.71	74	39.52	31.55	10.65	30.43	350	307	P	H
		5350.24	42.24	-11.76	54	30.63	31.4	10.64	30.43	350	307	A	H
		5128.44	52.46	-21.54	74	40.37	32.06	10.46	30.43	367	57	P	V
		5146.9	42.53	-11.47	54	30.38	32.09	10.49	30.43	367	57	A	V
	*	5220	111.24	-	-	99.41	31.68	10.58	30.43	367	57	P	V
	*	5220	103.72	-	-	91.89	31.68	10.58	30.43	367	57	A	V
		5399.24	51.37	-22.63	74	39.44	31.7	10.66	30.43	367	57	P	V
		5414.08	42.05	-11.95	54	30.1	31.7	10.68	30.43	367	57	A	V



802.11n HT20 CH 48 5240MHz		5141.44	51.86	-22.14	74	39.73	32.08	10.48	30.43	346	310	P	H
		5143.52	42.6	-11.4	54	30.46	32.09	10.48	30.43	346	310	A	H
	*	5240	112.5	-	-	100.78	31.56	10.59	30.43	346	310	P	H
	*	5240	104.61	-	-	92.89	31.56	10.59	30.43	346	310	A	H
		5439.56	51.63	-22.37	74	39.65	31.7	10.71	30.43	346	310	P	H
		5355.84	42.6	-11.4	54	30.95	31.44	10.64	30.43	346	310	A	H
		5138.32	51.91	-22.09	74	39.78	32.08	10.48	30.43	346	56	P	V
		5148.72	42.28	-11.72	54	30.12	32.1	10.49	30.43	346	56	A	V
	*	5240	111.21	-	-	99.49	31.56	10.59	30.43	346	56	P	V
	*	5240	103.64	-	-	91.92	31.56	10.59	30.43	346	56	A	V
		5435.36	50.95	-23.05	74	38.98	31.7	10.7	30.43	346	56	P	V
		5396.72	42.18	-11.82	54	30.27	31.68	10.66	30.43	346	56	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 36 5180MHz		10360	53.13	-15.07	68.2	59.72	39.9	14.41	60.9	100	0	P	H
		15540	54.23	-19.77	74	61.66	38	17.28	62.71	400	43	P	H
		15540	42.01	-11.99	54	49.44	38	17.28	62.71	400	43	A	H
													H
		10360	60.14	-8.06	68.2	66.73	39.9	14.41	60.9	400	0	P	V
		15540	58.79	-15.21	74	66.22	38	17.28	62.71	297	46	P	V
		15540	45.99	-8.01	54	53.42	38	17.28	62.71	297	46	A	V
													V
802.11n HT20 CH 44 5220MHz		10440	51.94	-16.26	68.2	58.45	40.1	14.41	61.02	100	0	P	H
		15660	49.21	-24.79	74	56.42	37.58	17.34	62.13	100	0	P	H
													H
													H
		10440	64.15	-4.05	68.2	70.66	40.1	14.41	61.02	288	358	P	V
		15660	55.84	-18.16	74	63.05	37.58	17.34	62.13	287	44	P	V
		15660	44.57	-9.43	54	51.78	37.58	17.34	62.13	287	44	A	V
													V
802.11n HT20 CH 48 5240MHz		10480	53.79	-14.41	68.2	60.35	40.1	14.41	61.07	100	0	P	H
		15720	48.78	-25.22	74	55.79	37.46	17.37	61.84	100	0	P	H
													H
													H
		10480	58.23	-9.97	68.2	64.79	40.1	14.41	61.07	100	0	P	V
		15720	49.91	-24.09	74	56.92	37.46	17.37	61.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11n HT40 CH 38 5190MHz		5148.46	57.38	-16.62	74	45.22	32.10	10.49	30.43	100	339	P	H
		5147.94	50.86	-3.14	54	38.70	32.10	10.49	30.43	100	339	A	H
	*	5190	107.85	-	-	95.87	31.86	10.55	30.43	100	339	P	H
	*	5190	100.18	-	-	88.20	31.86	10.55	30.43	100	339	A	H
		5384.12	52.42	-21.58	74	40.60	31.6	10.65	30.43	100	339	P	H
		5351.92	43.19	-10.81	54	31.57	31.41	10.64	30.43	100	339	A	H
		5146.12	57.36	-16.64	74	45.21	32.09	10.49	30.43	400	352	P	V
		5149.76	49.63	-4.37	54	37.47	32.1	10.49	30.43	400	352	A	V
	*	5190	106.04	-	-	94.06	31.86	10.55	30.43	400	352	P	V
	*	5190	98.81	-	-	86.83	31.86	10.55	30.43	400	352	A	V
		5358.92	50.84	-23.16	74	39.18	31.45	10.64	30.43	400	352	P	V
		5359.20	42.69	-11.31	54	31.02	31.46	10.64	30.43	400	352	A	V
802.11n HT40 CH 46 5230MHz		5150	55.19	-18.81	74	43.03	32.1	10.49	30.43	350	306	P	H
		5150	46.64	-7.36	54	34.48	32.1	10.49	30.43	350	306	A	H
	*	5230	110.97	-	-	99.2	31.62	10.58	30.43	350	306	P	H
	*	5230	103.11	-	-	91.34	31.62	10.58	30.43	350	306	A	H
		5389.16	53.06	-20.94	74	41.2	31.63	10.66	30.43	350	306	P	H
		5352.2	44.14	-9.86	54	32.52	31.41	10.64	30.43	350	306	A	H
		5149.76	54.63	-19.37	74	42.47	32.1	10.49	30.43	345	56	P	V
		5146.64	45.34	-8.66	54	33.19	32.09	10.49	30.43	345	56	A	V
	*	5230	108.17	-	-	96.4	31.62	10.58	30.43	345	56	P	V
	*	5230	100.23	-	-	88.46	31.62	10.58	30.43	345	56	A	V
		5350.52	52.39	-21.61	74	40.78	31.4	10.64	30.43	345	56	P	V
		5414.36	43	-11	54	31.05	31.7	10.68	30.43	345	56	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 38 5190MHz		10380	48.29	-19.91	68.2	54.81	40	14.41	60.93	100	0	P	H
		15570	45.98	-28.02	74	53.4	37.85	17.29	62.56	100	0	P	H
													H
													H
		10380	51.54	-16.66	68.2	58.06	40	14.41	60.93	100	0	P	V
		15570	46.89	-27.11	74	54.31	37.86	17.29	62.57	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	50.1	-18.1	68.2	56.63	40.1	14.41	61.04	100	0	P	H
		15690	47.99	-26.01	74	55.11	37.52	17.35	61.99	100	0	P	H
													H
													H
		10460	55.04	-13.16	68.2	61.57	40.1	14.41	61.04	100	0	P	V
		15690	49.92	-24.08	74	57.04	37.52	17.35	61.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 42 5210MHz		5149.50	58.11	-15.89	74	45.95	32.10	10.49	30.43	100	340	P	H
		5150	50.72	-3.28	54	38.56	32.10	10.49	30.43	100	340	A	H
	*	5210	102.61	-	-	90.73	31.74	10.57	30.43	100	340	P	H
	*	5210	95.07	-	-	83.19	31.74	10.57	30.43	100	340	A	H
		5355.56	52.37	-21.63	74	40.73	31.43	10.64	30.43	100	340	P	H
		5356.68	43.7	-10.30	54	32.05	31.44	10.64	30.43	100	340	A	H
		5129.48	56.68	-17.32	74	44.59	32.06	10.46	30.43	352	23	P	V
		5150	48.92	-5.08	54	36.76	32.1	10.49	30.43	352	23	A	V
	*	5210	101.96	-	-	90.08	31.74	10.57	30.43	352	23	P	V
	*	5210	94.01	-	-	82.13	31.74	10.57	30.43	352	23	A	V
		5397.56	51.53	-22.47	74	39.61	31.69	10.66	30.43	352	23	P	V
		5353.32	43.42	-10.58	54	31.79	31.42	10.64	30.43	352	23	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 42 5210MHz		10420	47.17	-21.03	68.2	53.65	40.1	14.41	60.99	100	0	P	H
		15630	46.19	-27.81	74	53.51	37.64	17.32	62.28	100	0	P	H
													H
													H
		10420	48.36	-19.84	68.2	54.84	40.1	14.41	60.99	100	0	P	V
		15630	45.96	-28.04	74	53.28	37.64	17.32	62.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5071.06	51.2	-22.8	74	39.31	31.94	10.38	30.43	344	310	P	H
		5143.14	42.38	-11.62	54	30.24	32.09	10.48	30.43	344	310	A	H
	*	5260	114.53	-	-	102.88	31.48	10.6	30.43	344	310	P	H
	*	5260	107.02	-	-	95.37	31.48	10.6	30.43	344	310	A	H
		5415.36	52.6	-21.4	74	40.65	31.7	10.68	30.43	344	310	P	H
		5352.48	43.02	-10.98	54	31.4	31.41	10.64	30.43	344	310	A	H
		5123.42	52.12	-21.88	74	40.04	32.05	10.46	30.43	400	60	P	V
		5132.94	42.31	-11.69	54	30.2	32.07	10.47	30.43	400	60	A	V
	*	5260	110.9	-	-	99.25	31.48	10.6	30.43	400	60	P	V
	*	5260	103.73	-	-	92.08	31.48	10.6	30.43	400	60	A	V
		5368.32	51.89	-22.11	74	40.16	31.51	10.65	30.43	400	60	P	V
		5398.32	42.1	-11.9	54	30.18	31.69	10.66	30.43	400	60	A	V
802.11a CH 60 5300MHz		5115.6	51.74	-22.26	74	39.7	32.03	10.44	30.43	334	309	P	H
		5100.64	42.25	-11.75	54	30.26	32	10.42	30.43	334	309	A	H
	*	5300	114.59	-	-	103.01	31.4	10.61	30.43	334	309	P	H
	*	5300	107.33	-	-	95.75	31.4	10.61	30.43	334	309	A	H
		5350.8	53.58	-20.42	74	41.97	31.4	10.64	30.43	334	309	P	H
		5350.08	45.77	-8.23	54	34.16	31.4	10.64	30.43	334	309	A	H
		5125.46	51	-23	74	38.92	32.05	10.46	30.43	377	61	P	V
		5143.82	42.32	-11.68	54	30.17	32.09	10.49	30.43	377	61	A	V
	*	5300	112.12	-	-	100.54	31.4	10.61	30.43	377	61	P	V
	*	5300	104.63	-	-	93.05	31.4	10.61	30.43	377	61	A	V
		5357.04	52.57	-21.43	74	40.92	31.44	10.64	30.43	377	61	P	V
		5351.52	43.55	-10.45	54	31.93	31.41	10.64	30.43	377	61	A	V



802.11a CH 64 5320MHz	*	5320	113.31	-	-	101.72	31.4	10.62	30.43	100	308	P	H
	*	5320	106.09	-	-	94.5	31.4	10.62	30.43	100	308	A	H
		5353.28	60.42	-13.58	74	48.79	31.42	10.64	30.43	100	308	P	H
		5352.32	50.72	-3.28	54	39.1	31.41	10.64	30.43	100	308	A	H
													H
													H
	*	5320	112.3	-	-	100.71	31.4	10.62	30.43	399	4	P	V
	*	5320	104.69	-	-	93.1	31.4	10.62	30.43	399	4	A	V
		5350.08	60.29	-13.71	74	48.68	31.4	10.64	30.43	399	4	P	V
		5350.08	50.85	-3.15	54	39.24	31.4	10.64	30.43	399	4	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	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	52.5	-15.7	68.2	59.08	40.12	14.4	61.1	100	0	P	H
		15780	47.23	-26.77	74	54.05	37.34	17.4	61.56	100	0	P	H
													H
													H
		10520	57.4	-10.8	68.2	63.98	40.12	14.4	61.1	100	0	P	V
		15780	49.91	-24.09	74	56.73	37.34	17.4	61.56	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	54.65	-19.35	74	61.15	40.2	14.4	61.1	399	302	P	H
		10600	45.24	-8.76	54	51.74	40.2	14.4	61.1	399	302	A	H
		15900	45.4	-28.6	74	52.12	36.8	17.46	60.98	100	0	P	H
													H
		10600	59.62	-14.38	74	66.12	40.2	14.4	61.1	332	51	P	V
		10600	50.36	-3.64	54	56.86	40.2	14.4	61.1	332	51	A	V
		15900	54.66	-19.34	74	61.38	36.8	17.46	60.98	269	91	P	V
		15900	43.85	-10.15	54	50.57	36.8	17.46	60.98	269	91	A	V
802.11a CH 64 5320MHz		10640	50.68	-23.32	74	57.23	40.16	14.39	61.1	100	0	P	H
		15960	45.51	-28.49	74	51.79	36.92	17.49	60.69	100	0	P	H
													H
													H
		10640	60.2	-13.8	74	66.75	40.16	14.39	61.1	332	278	P	V
		10640	50.23	-3.77	54	56.78	40.16	14.39	61.1	332	278	A	V
		15960	48.97	-25.03	74	55.25	36.92	17.49	60.69	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11n HT20 CH 52 5260MHz		5083.98	50.99	-23.01	74	39.05	31.97	10.4	30.43	344	306	P	H
		5117.64	42.35	-11.65	54	30.29	32.04	10.45	30.43	344	306	A	H
	*	5280	113.23	-	-	101.61	31.44	10.61	30.43	344	306	P	H
	*	5280	105.35	-	-	93.73	31.44	10.61	30.43	344	306	A	H
		5353.2	52.83	-21.17	74	41.2	31.42	10.64	30.43	344	306	P	H
		5351.76	43.93	-10.07	54	32.31	31.41	10.64	30.43	344	306	A	H
		5118.66	51.59	-22.41	74	39.53	32.04	10.45	30.43	400	60	P	V
		5143.14	42.2	-11.8	54	30.06	32.09	10.48	30.43	400	60	A	V
	*	5280	111.93	-	-	100.31	31.44	10.61	30.43	400	60	P	V
	*	5280	104.35	-	-	92.73	31.44	10.61	30.43	400	60	A	V
		5402.16	52.18	-21.82	74	40.25	31.7	10.66	30.43	400	60	P	V
		5350.8	42.77	-11.23	54	31.16	31.4	10.64	30.43	400	60	A	V
802.11n HT20 CH 60 5300MHz		5118.66	51.64	-22.36	74	39.58	32.04	10.45	30.43	341	307	P	H
		5109.14	42.26	-11.74	54	30.24	32.02	10.43	30.43	341	307	A	H
	*	5300	113.62	-	-	102.04	31.4	10.61	30.43	341	307	P	H
	*	5300	105.64	-	-	94.06	31.4	10.61	30.43	341	307	A	H
		5366.64	54.01	-19.99	74	42.29	31.5	10.65	30.43	341	307	P	H
		5351.04	45.21	-8.79	54	33.59	31.41	10.64	30.43	341	307	A	H
		5131.92	51.25	-22.75	74	39.15	32.06	10.47	30.43	376	59	P	V
		5069.02	42.28	-11.72	54	30.39	31.94	10.38	30.43	376	59	A	V
	*	5300	112.11	-	-	100.53	31.4	10.61	30.43	376	59	P	V
	*	5300	104.62	-	-	93.04	31.4	10.61	30.43	376	59	A	V
		5350.32	53.27	-20.73	74	41.66	31.4	10.64	30.43	376	59	P	V
		5350.08	43.74	-10.26	54	32.13	31.4	10.64	30.43	376	59	A	V



802.11n HT20 CH 64 5320MHz	*	5320	112.55	-	-	100.96	31.4	10.62	30.43	100	308	P	H
	*	5320	104.18	-	-	92.59	31.4	10.62	30.43	100	308	A	H
		5351.04	61.87	-12.13	74	50.25	31.41	10.64	30.43	100	308	P	H
		5351.04	50.26	-3.74	54	38.64	31.41	10.64	30.43	100	308	A	H
													H
													H
	*	5320	110.05	-	-	98.46	31.4	10.62	30.43	400	336	P	V
	*	5320	102.32	-	-	90.73	31.4	10.62	30.43	400	336	A	V
		5351.52	56.68	-17.32	74	45.06	31.41	10.64	30.43	400	336	P	V
		5350.08	47.17	-6.83	54	35.56	31.4	10.64	30.43	400	336	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 52 5260MHz		10520	52.8	-15.4	68.2	59.38	40.12	14.4	61.1	304	206	P	H
		10520	44.14	-9.86	54	50.72	40.12	14.4	61.1	304	206	A	H
		15780	46.81	-27.19	74	53.63	37.34	17.4	61.56	100	0	P	H
													H
		10520	56.28	-11.92	68.2	62.86	40.12	14.4	61.1	351	277	P	V
		10520	49.25	-4.75	54	55.83	40.12	14.4	61.1	351	277	A	V
		15780	50.38	-23.62	74	57.2	37.34	17.4	61.56	266	92	P	V
		15780	43.45	-10.55	54	50.27	37.34	17.4	61.56	266	92	A	V
802.11n HT20 CH 60 5300MHz		10600	51.3	-22.7	74	57.8	40.2	14.4	61.1	363	292	P	H
		10600	43.28	-10.72	54	49.78	40.2	14.4	61.1	363	292	A	H
		15900	45.57	-28.43	74	52.29	36.8	17.46	60.98	100	0	P	H
													H
		10600	57.4	-16.6	74	63.9	40.2	14.4	61.1	347	41	P	V
		10600	48.98	-5.02	54	55.48	40.2	14.4	61.1	347	41	A	V
		15900	50.85	-23.15	74	57.57	36.8	17.46	60.98	268	90	P	V
		15900	43.28	-10.72	54	50	36.8	17.46	60.98	268	90	A	V
802.11n HT20 CH 64 5320MHz		10640	50.67	-23.33	74	57.22	40.16	14.39	61.1	100	0	P	H
		15960	45.95	-28.05	74	52.23	36.92	17.49	60.69	100	0	P	H
													H
													H
		10640	56.28	-17.72	74	62.83	40.16	14.39	61.1	326	43	P	V
		10640	48.64	-5.36	54	55.19	40.16	14.39	61.1	326	43	A	V
		15960	48.47	-25.53	74	54.75	36.92	17.49	60.69	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11n HT40 CH 54 5270MHz		5144.84	52.59	-21.41	74	40.44	32.09	10.49	30.43	343	308	P	H
		5147.22	43.83	-10.17	54	31.68	32.09	10.49	30.43	343	308	A	H
	*	5270	111.73	-	-	100.1	31.46	10.6	30.43	343	308	P	H
	*	5270	103.71	-	-	92.08	31.46	10.6	30.43	343	308	A	H
		5354.88	55.23	-18.77	74	43.59	31.43	10.64	30.43	343	308	P	H
		5350.56	46.71	-7.29	54	35.1	31.4	10.64	30.43	343	308	A	H
		5132.94	52.02	-21.98	74	39.91	32.07	10.47	30.43	383	59	P	V
		5140.42	43.45	-10.55	54	31.32	32.08	10.48	30.43	383	59	A	V
	*	5270	109.4	-	-	97.77	31.46	10.6	30.43	383	59	P	V
	*	5270	101.69	-	-	90.06	31.46	10.6	30.43	383	59	A	V
		5354.4	54.17	-19.83	74	42.53	31.43	10.64	30.43	383	59	P	V
		5350.08	46.69	-7.31	54	35.08	31.4	10.64	30.43	383	59	A	V
802.11n HT40 CH 62 5310MHz		5076.5	52.55	-21.45	74	40.64	31.95	10.39	30.43	100	308	P	H
		5141.78	43.35	-10.65	54	31.22	32.08	10.48	30.43	100	308	A	H
	*	5310	104.62	-	-	93.03	31.4	10.62	30.43	100	308	P	H
	*	5310	96.85	-	-	85.26	31.4	10.62	30.43	100	308	A	H
		5355.6	57.05	-16.95	74	45.41	31.43	10.64	30.43	100	308	P	H
		5356.56	47.89	-6.11	54	36.24	31.44	10.64	30.43	100	308	A	H
		5119	52.28	-21.72	74	40.22	32.04	10.45	30.43	356	354	P	V
		5078.54	43.04	-10.96	54	31.12	31.96	10.39	30.43	356	354	A	V
	*	5310	103.39	-	-	91.8	31.4	10.62	30.43	356	354	P	V
	*	5310	95.81	-	-	84.22	31.4	10.62	30.43	356	354	A	V
		5350.08	57.91	-16.09	74	46.3	31.4	10.64	30.43	356	354	P	V
		5350.08	50.66	-3.34	54	39.05	31.4	10.64	30.43	356	354	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 54 5270MHz		10540	49.7	-18.5	68.2	56.26	40.14	14.4	61.1	100	0	P	H
		15810	47.92	-26.08	74	54.67	37.25	17.41	61.41	100	0	P	H
													H
													H
		10540	53.61	-14.59	68.2	60.17	40.14	14.4	61.1	325	51	P	V
		10540	45.91	-8.09	54	52.47	40.14	14.4	61.1	325	51	A	V
		15810	48.03	-25.97	74	54.78	37.25	17.41	61.41	100	0	P	V
													V
802.11n HT40 CH 62 5310MHz		10620	49.36	-24.64	74	55.89	40.18	14.39	61.1	100	0	P	H
		15930	44.89	-29.11	74	51.39	36.86	17.48	60.84	100	0	P	H
													H
													H
		10620	49.23	-24.77	74	55.76	40.18	14.39	61.1	100	0	P	V
		15930	44.82	-29.18	74	51.32	36.86	17.48	60.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 58 5290MHz		5111.18	51.65	-22.35	74	39.62	32.02	10.44	30.43	100	126	P	H
		5147.56	43.09	-10.91	54	30.93	32.1	10.49	30.43	100	126	A	H
	*	5290	96.96	-	-	85.36	31.42	10.61	30.43	100	126	P	H
	*	5290	89.34	-	-	77.74	31.42	10.61	30.43	100	126	A	H
		5350.32	57.67	-16.33	74	46.06	31.4	10.64	30.43	100	126	P	H
		5350.32	50.31	-3.69	54	38.7	31.4	10.64	30.43	100	126	A	H
		5137.7	52.75	-21.25	74	40.62	32.08	10.48	30.43	100	87	P	V
		5129.54	43.02	-10.98	54	30.93	32.06	10.46	30.43	100	87	A	V
	*	5290	93.53	-	-	81.93	31.42	10.61	30.43	100	87	P	V
	*	5290	85.46	-	-	73.86	31.42	10.61	30.43	100	87	A	V
		5352.48	54.05	-19.95	74	42.43	31.41	10.64	30.43	100	87	P	V
		5350.32	47.17	-6.83	54	35.56	31.4	10.64	30.43	100	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 58 5290MHz		10580	47.4	-20.8	68.2	53.92	40.18	14.4	61.1	100	0	P	H
		15870	45.96	-28.04	74	52.68	36.95	17.45	61.12	100	0	P	H
													H
													H
		10580	48.17	-20.03	68.2	54.69	40.18	14.4	61.1	100	0	P	V
		15870	45.77	-28.23	74	52.49	36.95	17.45	61.12	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5449.2	55.52	-18.48	74	43.53	31.7	10.72	30.43	326	312	P	H
		5470	60.47	-7.73	68.2	48.34	31.82	10.74	30.43	326	312	P	H
		5458.16	46.36	-7.64	54	34.31	31.75	10.73	30.43	326	312	A	H
	*	5500	113.75	-	-	101.4	32	10.78	30.43	326	312	P	H
	*	5500	105.94	-	-	93.59	32	10.78	30.43	326	312	A	H
													H
		5459.92	55.05	-18.95	74	42.99	31.76	10.73	30.43	348	59	P	V
		5468.4	59.97	-8.23	68.2	47.85	31.81	10.74	30.43	348	59	P	V
		5460.08	44.95	-9.05	54	32.89	31.76	10.73	30.43	348	59	A	V
	*	5500	110.24	-	-	97.89	32	10.78	30.43	348	59	P	V
	*	5500	102.26	-	-	89.91	32	10.78	30.43	348	59	A	V
													V
802.11a CH 116 5580MHz		5458.24	51.93	-22.07	74	39.88	31.75	10.73	30.43	323	311	P	H
		5468.8	51.17	-17.03	68.2	39.05	31.81	10.74	30.43	323	311	P	H
		5458.24	42.51	-11.49	54	30.46	31.75	10.73	30.43	323	311	A	H
	*	5580	115.39	-	-	103.14	31.86	10.87	30.48	323	311	P	H
	*	5580	107.42	-	-	95.17	31.86	10.87	30.48	323	311	A	H
		5738.855	51.1	-17.1	68.2	38.81	32	10.87	30.58	323	311	P	H
		5443.84	51.17	-22.83	74	39.19	31.7	10.71	30.43	398	57	P	V
		5470	50.04	-18.16	68.2	37.91	31.82	10.74	30.43	398	57	P	V
		5435.2	42.24	-11.76	54	30.27	31.7	10.7	30.43	398	57	A	V
	*	5580	112.43	-	-	100.18	31.86	10.87	30.48	398	57	P	V
	*	5580	105.18	-	-	92.93	31.86	10.87	30.48	398	57	A	V
		5753.345	51.66	-16.54	68.2	39.38	32.01	10.86	30.59	398	57	P	V



802.11a CH 140 5700MHz	*	5700	111.44	-	-	99.12	32	10.87	30.55	326	310	P	H
	*	5700	103.88	-	-	91.56	32	10.87	30.55	326	310	A	H
		5725	65.12	-3.08	68.2	52.82	32	10.87	30.57	326	310	P	H
													H
													H
													H
	*	5700	108.87	-	-	96.55	32	10.87	30.55	378	55	P	V
	*	5700	101.31	-	-	88.99	32	10.87	30.55	378	55	A	V
		5726.2	60.49	-7.71	68.2	48.19	32	10.87	30.57	378	55	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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	49.68	-24.32	74	55.81	40.6	14.37	61.1	400	0	P	H
		16500	51.7	-16.5	68.2	54.19	38.8	18.11	59.4	363	176	P	H
		16500	42.5	-11.5	54	44.99	38.8	18.11	59.4	363	176	A	H
													H
		11000	53.53	-20.47	74	59.66	40.6	14.37	61.1	292	44	P	V
		11000	45.99	-8.01	54	52.12	40.6	14.37	61.1	292	44	A	V
		16500	53.12	-15.08	68.2	55.61	38.8	18.11	59.4	277	84	P	V
		16500	47.64	-6.36	54	50.13	38.8	18.11	59.4	277	84	A	V
802.11a CH 116 5580MHz		11160	49.92	-24.08	74	56.2	40.22	14.54	61.04	400	0	P	H
		16740	53.69	-14.51	68.2	54.57	39.98	18.4	59.26	276	215	P	H
		16740	46.86	-7.14	54	47.74	39.98	18.4	59.26	276	215	A	H
													H
		11160	54.81	-19.19	74	61.09	40.22	14.54	61.04	95	276	P	V
		11160	46.78	-7.22	54	53.06	40.22	14.54	61.04	395	276	A	V
		16740	55.8	-12.4	68.2	56.68	39.98	18.4	59.26	267	85	P	V
		16740	50.29	-3.71	54	51.17	39.98	18.4	59.26	267	85	A	V
802.11a CH 140 5700MHz		11400	52.39	-21.61	74	58.24	40.3	14.79	60.94	342	326	P	H
		11400	41.01	-12.99	54	46.86	40.3	14.79	60.94	342	326	A	H
		17100	51.65	-16.55	68.2	51.01	40.8	18.82	58.98	100	0	P	H
													H
		11400	55.12	-18.88	74	60.97	40.3	14.79	60.94	262	51	P	V
		11400	44.97	-9.03	54	50.82	40.3	14.79	60.94	262	51	A	V
		17100	52.36	-15.84	68.2	51.72	40.8	18.82	58.98	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 100 5500MHz		5455.44	55.56	-18.44	74	43.53	31.73	10.73	30.43	313	343	P	H
		5470	64.52	-3.68	68.2	52.39	31.82	10.74	30.43	313	343	P	H
		5455.92	45.67	-8.33	54	33.63	31.74	10.73	30.43	313	343	A	H
	*	5500	112.1	-	-	99.75	32	10.78	30.43	313	343	P	H
	*	5500	104.56	-	-	92.21	32	10.78	30.43	313	343	A	H
													H
		5459.28	57.02	-16.98	74	44.96	31.76	10.73	30.43	387	56	P	V
		5469.04	57.64	-10.56	68.2	45.52	31.81	10.74	30.43	387	56	P	V
		5460	45.41	-8.59	54	33.35	31.76	10.73	30.43	387	56	A	V
	*	5500	112.63	-	-	100.28	32	10.78	30.43	387	56	P	V
	*	5500	105.05	-	-	92.7	32	10.78	30.43	387	56	A	V
													V
802.11n HT20 CH 116 5580MHz		5452.72	51.33	-22.67	74	39.32	31.72	10.72	30.43	316	316	P	H
		5462.56	50.85	-17.35	68.2	38.77	31.78	10.73	30.43	316	316	P	H
		5442.16	42.62	-11.38	54	30.64	31.7	10.71	30.43	316	316	A	H
	*	5580	113.23	-	-	100.98	31.86	10.87	30.48	316	316	P	H
	*	5580	105.3	-	-	93.05	31.86	10.87	30.48	316	316	A	H
		5745.155	51.81	-16.39	68.2	39.53	32	10.86	30.58	316	316	P	H
		5437.6	51.43	-22.57	74	39.45	31.7	10.71	30.43	399	59	P	V
		5468.8	50.78	-17.42	68.2	38.66	31.81	10.74	30.43	399	59	P	V
		5427.76	42.47	-11.53	54	30.51	31.7	10.69	30.43	399	59	A	V
	*	5580	110.24	-	-	98.01	31.84	10.86	30.47	399	59	P	V
	*	5580	103.55	-	-	91.32	31.84	10.86	30.47	399	59	A	V
		5763.11	51.93	-16.27	68.2	39.61	32.05	10.86	30.59	399	59	P	V



802.11n HT20 CH 140 5700MHz	*	5700	109.42	-	-	97.1	32	10.87	30.55	320	307	P	H
	*	5700	101.76	-	-	89.44	32	10.87	30.55	320	307	A	H
		5728.04	58.51	-9.69	68.2	46.21	32	10.87	30.57	320	307	P	H
													H
													H
													H
	*	5700	105.44	-	-	93.12	32	10.87	30.55	400	65	P	V
	*	5700	97.74	-	-	85.42	32	10.87	30.55	400	65	A	V
		5725.08	64.47	-3.73	68.2	52.17	32	10.87	30.57	400	65	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 100 5500MHz		11000	50.13	-23.87	74	56.26	40.6	14.37	61.1	100	0	P	H
		16500	48.57	-19.63	68.2	51.06	38.8	18.11	59.4	100	0	P	H
													H
													H
		11000	57.18	-16.82	74	63.31	40.6	14.37	61.1	330	48	P	V
		11000	47.29	-6.71	54	53.42	40.6	14.37	61.1	330	48	A	V
		16500	50.76	-17.44	68.2	53.25	38.8	18.11	59.4	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	49.96	-24.04	74	56.24	40.22	14.54	61.04	100	0	P	H
		16740	54.64	-13.56	68.2	55.52	39.98	18.4	59.26	100	0	P	H
													H
													H
		11160	58.81	-15.19	74	65.09	40.22	14.54	61.04	324	49	P	V
		11160	47.47	-6.53	54	53.75	40.22	14.54	61.04	324	49	A	V
		16740	58.41	-9.79	68.2	59.29	39.98	18.4	59.26	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	49.8	-24.2	74	55.65	40.3	14.79	60.94	100	0	P	H
		17100	50.66	-17.54	68.2	50.02	40.8	18.82	58.98	100	0	P	H
													H
													H
		11400	55.46	-18.54	74	61.31	40.3	14.79	60.94	326	49	P	V
		11400	43.08	-10.92	54	48.93	40.3	14.79	60.94	326	49	A	V
		17100	51.08	-17.12	68.2	50.44	40.8	18.82	58.98	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 102 5510MHz		5459.89	57.27	-16.73	74	45.21	31.76	10.73	30.43	293	315	P	H
		5467.99	62.12	-6.08	68.2	50	31.81	10.74	30.43	293	315	P	H
		5459.89	50.64	-3.36	54	38.58	31.76	10.73	30.43	293	315	A	H
	*	5510	104.77	-	-	92.46	31.96	10.79	30.44	293	315	P	H
	*	5510	96.97	-	-	84.66	31.96	10.79	30.44	293	315	A	H
		5741.06	51.5	-16.7	68.2	39.22	32	10.86	30.58	293	315	P	H
		5456.92	54.21	-19.79	74	42.17	31.74	10.73	30.43	100	57	P	V
		5468.53	61.78	-6.42	68.2	49.66	31.81	10.74	30.43	100	57	P	V
		5459.08	45.04	-8.96	54	32.99	31.75	10.73	30.43	100	57	A	V
	*	5510	100.35	-	-	88.04	31.96	10.79	30.44	100	57	P	V
	*	5510	92.68	-	-	80.37	31.96	10.79	30.44	100	57	A	V
		5730.98	50.69	-17.51	68.2	38.39	32	10.87	30.57	100	57	P	V
802.11n HT40 CH 110 5550MHz		5452.6	53	-21	74	40.99	31.72	10.72	30.43	100	115	P	H
		5469.61	54.65	-13.55	68.2	42.52	31.82	10.74	30.43	100	115	P	H
		5429.38	46.02	-7.98	54	34.05	31.7	10.7	30.43	100	115	A	H
	*	5550	109.22	-	-	97.04	31.8	10.84	30.46	100	115	P	H
	*	5550	101.3	-	-	89.12	31.8	10.84	30.46	100	115	A	H
		5765	52.71	-15.49	68.2	40.38	32.06	10.86	30.59	100	115	P	H
		5456.11	52.8	-21.2	74	40.76	31.74	10.73	30.43	102	52	P	V
		5463.67	53.62	-14.58	68.2	41.53	31.78	10.74	30.43	102	52	P	V
		5459.62	44.24	-9.76	54	32.18	31.76	10.73	30.43	102	52	A	V
	*	5550	108.08	-	-	95.9	31.8	10.84	30.46	102	52	P	V
	*	5550	100.51	-	-	88.33	31.8	10.84	30.46	102	52	A	V
		5739.17	52.17	-16.03	68.2	39.89	32	10.86	30.58	102	52	P	V



802.11n HT40 CH 134 5670MHz		5459.52	51.56	-22.44	74	39.5	31.76	10.73	30.43	100	125	P	H
		5463.22	51.64	-16.56	68.2	39.55	31.78	10.74	30.43	100	125	P	H
		5458.78	43.21	-10.79	54	31.16	31.75	10.73	30.43	100	125	A	H
	*	5670	109.93	-	-	97.71	31.88	10.88	30.54	100	125	P	H
	*	5670	102.8	-	-	90.58	31.88	10.88	30.54	100	125	A	H
		5732.8	64.9	-3.3	68.2	52.6	32	10.87	30.57	100	125	P	H
		5455.82	52	-22	74	39.97	31.73	10.73	30.43	100	69	P	V
		5464.7	50.68	-17.52	68.2	38.58	31.79	10.74	30.43	100	69	P	V
		5403.65	42.76	-11.24	54	30.82	31.7	10.67	30.43	100	69	A	V
	*	5670	108.41	-	-	96.19	31.88	10.88	30.54	100	69	P	V
	*	5670	100.88	-	-	88.66	31.88	10.88	30.54	100	69	A	V
		5730.175	62.7	-5.5	68.2	50.4	32	10.87	30.57	100	69	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 102 5510MHz		11020	50.06	-23.94	74	56.2	40.56	14.39	61.09	100	0	P	H
		16530	47.91	-20.29	68.2	50.32	38.83	18.14	59.38	100	0	P	H
													H
													H
		11020	50.1	-23.9	74	56.24	40.56	14.39	61.09	100	0	P	V
		16530	48.13	-20.07	68.2	50.54	38.83	18.14	59.38	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	49.2	-24.8	74	55.39	40.4	14.47	61.06	100	0	P	H
		16650	48.69	-19.51	68.2	50.41	39.3	18.29	59.31	100	0	P	H
													H
													H
		11100	54.86	-19.14	74	61.05	40.4	14.47	61.06	334	48	P	V
		11100	46.23	-7.77	54	52.42	40.4	14.47	61.06	334	48	A	V
		16650	51.41	-16.79	68.2	53.13	39.3	18.29	59.31	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	49.71	-24.29	74	55.76	40.18	14.73	60.96	100	0	P	H
		17010	51.51	-16.69	68.2	51.25	40.62	18.73	59.09	100	0	P	H
													H
													H
		11340	53.98	-20.02	74	60.03	40.18	14.73	60.96	336	237	P	V
		11340	45.65	-8.35	54	51.7	40.18	14.73	60.96	336	237	A	V
		17010	54.42	-13.78	68.2	54.16	40.62	18.73	59.09	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 106 5530MHz		5459.62	57.22	-16.78	74	45.16	31.76	10.73	30.43	100	121	P	H
		5459.89	57.11	-16.89	74	45.05	31.76	10.73	30.43	100	121	P	H
		5458	49.79	-4.21	54	37.74	31.75	10.73	30.43	100	121	A	H
	*	5530	97.25	-	-	85.01	31.88	10.81	30.45	100	121	P	H
	*	5530	89.29	-	-	77.05	31.88	10.81	30.45	100	121	A	H
		5735.705	50.91	-17.29	68.2	38.62	32	10.87	30.58	100	121	P	H
		5454.22	53.92	-20.08	74	41.9	31.73	10.72	30.43	100	90	P	V
		5466.1	54.5	-13.7	68.2	42.39	31.8	10.74	30.43	100	90	P	V
		5458.54	46.46	-7.54	54	34.41	31.75	10.73	30.43	100	90	A	V
	*	5530	93.82	-	-	81.58	31.88	10.81	30.45	100	90	P	V
	*	5530	86.47	-	-	74.23	31.88	10.81	30.45	100	90	A	V
		5741.06	51.23	-16.97	68.2	38.95	32	10.86	30.58	100	90	P	V
802.11ac VHT80 CH 122 5610MHz		5457.73	53.17	-20.83	74	41.12	31.75	10.73	30.43	100	124	P	H
		5469.07	54.18	-14.02	68.2	42.06	31.81	10.74	30.43	100	124	P	H
		5451.79	43.76	-10.24	54	31.76	31.71	10.72	30.43	100	124	A	H
	*	5610	107.43	-	-	95.16	31.88	10.89	30.5	100	124	P	H
	*	5610	99.73	-	-	87.46	31.88	10.89	30.5	100	124	A	H
		5725	57.19	-11.01	68.2	44.89	32	10.87	30.57	100	124	P	H
		5457.19	53.17	-20.83	74	41.13	31.74	10.73	30.43	100	86	P	V
		5465.02	52.63	-15.57	68.2	40.53	31.79	10.74	30.43	100	86	P	V
		5458.27	43.45	-10.55	54	31.4	31.75	10.73	30.43	100	86	A	V
	*	5610	105.68	-	-	93.41	31.88	10.89	30.5	100	86	P	V
	*	5610	97.56	-	-	85.29	31.88	10.89	30.5	100	86	A	V
		5731.61	56.68	-11.52	68.2	44.38	32	10.87	30.57	100	86	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 106 5530MHz		11060	50.05	-23.95	74	56.22	40.48	14.43	61.08	100	0	P	H
		16590	48.39	-19.81	68.2	50.63	38.89	18.22	59.35	100	0	P	H
													H
													H
		11060	50.05	-23.95	74	56.22	40.48	14.43	61.08	100	0	P	V
		16590	47.09	-21.11	68.2	49.33	38.89	18.22	59.35	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	49.68	-24.32	74	55.99	40.1	14.6	61.01	100	0	P	H
		16830	50.89	-17.31	68.2	51.25	40.34	18.5	59.2	100	0	P	H
													H
													H
		11220	49.82	-24.18	74	56.13	40.1	14.6	61.01	100	0	P	V
		16830	51.99	-16.21	68.2	52.35	40.34	18.5	59.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5394.85	51.33	-22.67	74	39.43	31.67	10.66	30.43	340	306	P	H
		5467	50.27	-17.93	68.2	38.16	31.8	10.74	30.43	340	306	P	H
		5424.49	42.09	-11.91	54	30.13	31.7	10.69	30.43	340	306	A	H
	*	5720	112.96	-	-	100.66	32	10.87	30.57	340	306	P	H
	*	5720	105.51	-	-	93.21	32	10.87	30.57	340	306	A	H
		5931.5	52.33	-15.87	68.2	39.39	32.46	11.18	30.7	340	306	P	H
		5440.87	50.71	-23.29	74	38.73	31.7	10.71	30.43	395	65	P	V
		5465.05	51.51	-16.69	68.2	39.41	31.79	10.74	30.43	395	65	P	V
		5432.29	41.96	-12.04	54	29.99	31.7	10.7	30.43	395	65	A	V
	*	5720	112.25	-	-	99.95	32	10.87	30.57	395	65	P	V
	*	5720	104.59	-	-	92.29	32	10.87	30.57	395	65	A	V
		5947.75	52.41	-15.79	68.2	39.4	32.5	11.22	30.71	395	65	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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 144 5720MHz		11440	49.92	-24.08	74	55.62	40.38	14.84	60.92	100	0	P	H
		17160	49.82	-18.38	68.2	49.04	40.8	18.89	58.91	100	0	P	H
													H
													H
		11440	55.95	-18.05	74	61.65	40.38	14.84	60.92	258	54	P	V
		11440	47.19	-6.81	54	52.89	40.38	14.84	60.92	258	54	A	V
		17160	53.49	-14.71	68.2	52.71	40.8	18.89	58.91	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 144 5720MHz		5413.18	52.28	-21.72	74	40.33	31.7	10.68	30.43	335	305	P	H
		5462.32	51.81	-16.39	68.2	39.74	31.77	10.73	30.43	335	305	P	H
		5458.81	42.18	-11.82	54	30.13	31.75	10.73	30.43	335	305	A	H
	*	5720	112.89	-	-	100.59	32	10.87	30.57	335	305	P	H
	*	5720	105	-	-	92.7	32	10.87	30.57	335	305	A	H
		5927.5	52.55	-15.65	68.2	39.62	32.46	11.17	30.7	335	305	P	H
		5419.42	51.76	-22.24	74	39.81	31.7	10.68	30.43	376	64	P	V
		5468.95	50.81	-17.39	68.2	38.69	31.81	10.74	30.43	376	64	P	V
		5450.23	41.99	-12.01	54	30	31.7	10.72	30.43	376	64	A	V
	*	5720	110.87	-	-	98.57	32	10.87	30.57	376	64	P	V
	*	5720	102.91	-	-	90.61	32	10.87	30.57	376	64	A	V
		5940.25	54.36	-13.84	68.2	41.38	32.48	11.2	30.7	376	64	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT20 CH 144 5720MHz		11440	49.49	-24.51	74	55.19	40.38	14.84	60.92	100	0	P	H
		17162.1	50.28	-17.92	68.2	49.49	40.8	18.9	58.91	100	0	P	H
													H
													H
		11440	56.32	-17.68	74	62.02	40.38	14.84	60.92	258	53	P	V
		11440	46.74	-7.26	54	52.44	40.38	14.84	60.92	258	53	A	V
		17160	52.7	-15.5	68.2	51.92	40.8	18.89	58.91	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 142 5710MHz		5440.48	51.65	-22.35	74	39.67	31.7	10.71	30.43	100	47	P	H
		5468.95	50.58	-17.62	68.2	38.46	31.81	10.74	30.43	100	47	P	H
		5447.5	43.21	-10.79	54	31.22	31.7	10.72	30.43	100	47	A	H
	*	5710	110.54	-	-	98.23	32	10.87	30.56	100	47	P	H
	*	5710	102.6	-	-	90.29	32	10.87	30.56	100	47	A	H
		5944.5	53.1	-15.1	68.2	40.11	32.49	11.21	30.71	100	47	P	H
		5439.7	52.25	-21.75	74	40.27	31.7	10.71	30.43	100	274	P	V
		5463.88	50.78	-17.42	68.2	38.69	31.78	10.74	30.43	100	274	P	V
		5456.08	42.58	-11.42	54	30.54	31.74	10.73	30.43	100	274	A	V
	*	5710	107.04	-	-	94.73	32	10.87	30.56	100	274	P	V
	*	5710	99.38	-	-	87.07	32	10.87	30.56	100	274	A	V
		5914.5	52.29	-15.91	68.2	39.41	32.43	11.14	30.69	100	274	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 0+1	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)
802.11n HT40 CH 142 5710MHz		11420	49.62	-24.38	74	55.39	40.34	14.82	60.93	100	0	P	H
		17130	50.87	-17.33	68.2	50.16	40.8	18.85	58.94	100	0	P	H
													H
													H
		11420	52.83	-21.17	74	58.6	40.34	14.82	60.93	261	54	P	V
		11420	45.56	-8.44	54	51.33	40.34	14.82	60.93	261	54	A	V
		17130	50.77	-17.43	68.2	50.06	40.8	18.85	58.94	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 138 5690MHz		5409.67	51.61	-22.39	74	39.67	31.7	10.67	30.43	100	124	P	H
		5465.05	50.09	-18.11	68.2	37.99	31.79	10.74	30.43	100	124	P	H
		5454.52	42.61	-11.39	54	30.58	31.73	10.73	30.43	100	124	A	H
	*	5690	107.08	-	-	94.79	31.96	10.88	30.55	100	124	P	H
	*	5690	99.45	-	-	87.16	31.96	10.88	30.55	100	124	A	H
		5894.5	53.07	-15.13	68.2	40.27	32.38	11.09	30.67	100	124	P	H
		5373.79	51.78	-22.22	74	40.02	31.54	10.65	30.43	100	92	P	V
		5467.39	50.4	-17.8	68.2	38.29	31.8	10.74	30.43	100	92	P	V
		5459.98	42.51	-11.49	54	30.45	31.76	10.73	30.43	100	92	A	V
	*	5690	104.53	-	-	92.24	31.96	10.88	30.55	100	92	P	V
	*	5690	96.7	-	-	84.41	31.96	10.88	30.55	100	92	A	V
		5857	52.53	-15.67	68.2	39.96	32.23	10.99	30.65	100	92	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	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)
802.11ac VHT80 CH 138 5690MHz		11380	49.55	-24.45	74	55.47	40.26	14.77	60.95	100	0	P	H
		17070	50.28	-17.92	68.2	49.77	40.74	18.79	59.02	100	0	P	H
													H
													H
		11380	49.75	-24.25	74	55.67	40.26	14.77	60.95	100	0	P	V
		17070	51.16	-17.04	68.2	50.65	40.74	18.79	59.02	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

[illegible]



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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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”.