



# FCC RADIO TEST REPORT

**FCC ID** : 2AP68-7277  
**Equipment** : Digital Media Receiver  
**Model Name** : SXP16E  
**Applicant** : Temple Energy LLC  
13894 S. Bangerter Pkwy, Ste. 200  
Draper, UT 84020  
**Standard** : FCC Part 15 Subpart E §15.407

The testing was completed on Oct. 25, 2018. We, SPORTON INTERNATIONAL 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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.

Approved by: Joseph Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Pass
3.7	15.203 15.407(a)	Antenna Requirement	Pass

Reviewed by: Wii Chang

Report Producer: Nancy Yang



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	SXP16E
FCC ID	2AP68-7277
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

## 1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz
Maximum Output Power to Antenna <CDD Modes>	<p><b>&lt;Ant. 1&gt;</b>                      802.11a : 19.70 dBm / 0.0933 W                      802.11n HT20 : 18.61 dBm / 0.0726 W                      802.11n HT40 : 18.71 dBm / 0.0743 W                      802.11ac VHT20: 18.51 dBm / 0.0710 W                      802.11ac VHT40: 18.67 dBm / 0.0736 W                      802.11ac VHT80: 11.34 dBm / 0.0136 W</p> <p><b>&lt;Ant. 2&gt;</b>                      802.11a : 19.71 dBm / 0.0935 W                      802.11n HT20 : 18.67 dBm / 0.0736 W                      802.11n HT40 : 18.56 dBm / 0.0718 W                      802.11ac VHT20: 18.61 dBm / 0.0726 W                      802.11ac VHT40: 18.43 dBm / 0.0697 W                      802.11ac VHT80: 13.24 dBm / 0.0211 W</p> <p><b>MIMO &lt;Ant. 1 + 2&gt;</b>                      802.11a : 21.34 dBm / 0.1361 W                      802.11n HT20 : 21.35 dBm / 0.1365 W                      802.11n HT40 : 21.85 dBm / 0.1531 W                      802.11ac VHT20: 21.29 dBm / 0.1346 W                      802.11ac VHT40: 21.78 dBm / 0.1507 W                      802.11ac VHT80: 13.04 dBm / 0.0201 W</p>
Maximum Output Power to Antenna <TXBF Modes>	<p><b>MIMO &lt;Ant. 1 + 2&gt;</b>                      802.11ac VHT20: 20.77 dBm / 0.1194 W                      802.11ac VHT40: 22.50 dBm / 0.1778 W                      802.11ac VHT80: 11.30 dBm / 0.0135 W</p>

Standards-related Product Specification														
<p><b>99% Occupied Bandwidth &lt;CDD Modes&gt;</b></p>	<p><b>&lt;Ant. 1&gt;</b>            802.11a : 17.10 MHz            802.11n VHT20 : 17.90 MHz            802.11n VHT40 : 36.70 MHz            802.11ac VHT80 : 76.92 MHz  <b>&lt;Ant. 2&gt;</b>            802.11a : 17.00 MHz            802.11n VHT20 : 17.90 MHz            802.11n VHT40 : 36.70 MHz            802.11ac VHT80 : 76.92 MHz  <b>MIMO &lt;Ant. 1&gt;</b>            802.11a : 16.90 MHz            802.11n VHT20 : 17.85 MHz            802.11n VHT40 : 36.90 MHz            802.11ac VHT80 : 77.16 MHz  <b>MIMO &lt;Ant. 2&gt;</b>            802.11a : 16.60 MHz            802.11n VHT20 : 17.75 MHz            802.11n VHT40 : 36.90 MHz            802.11ac VHT80 : 76.80 MHz</p>													
<p><b>99% Occupied Bandwidth &lt;TXBF Modes&gt;</b></p>	<p><b>MIMO &lt;Ant. 1&gt;</b>            802.11ac VHT20 : 17.93 MHz            802.11ac VHT40 : 37.76 MHz            802.11ac VHT80 : 76.72 MHz  <b>MIMO &lt;Ant. 2&gt;</b>            802.11ac VHT20 : 17.68 MHz            802.11ac VHT40 : 37.66 MHz            802.11ac VHT80 : 76.36 MHz</p>													
<p><b>Antenna Type / Gain</b></p>	<p>&lt;Ant. 1&gt; : PCB printed Inverted-F Antenna with gain 4.19 dBi            &lt;Ant. 2&gt; : PCB printed Inverted-F Antenna with gain 1.40 dBi</p>													
<p><b>Type of Modulation</b></p>	<p>802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM)            802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)</p>													
<p><b>Antenna Function Description</b></p>	<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</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 a/n/ac MIMO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 ac TXBF</td> <td>V</td> <td>V</td> </tr> </tbody> </table>			Ant. 1	Ant. 2	802.11 a/n/ac	V	V	802.11 a/n/ac MIMO	V	V	802.11 ac TXBF	V	V
	Ant. 1	Ant. 2												
802.11 a/n/ac	V	V												
802.11 a/n/ac MIMO	V	V												
802.11 ac TXBF	V	V												

**Note:** MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

### 1.3 Modification of EUT

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



### 1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

<b>Test Site</b>	SPORTON INTERNATIONAL INC.		
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		
	TH05-HY	CO05-HY	DFS02-HY

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

<b>Test Site</b>	SPORTON INTERNATIONAL INC.		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		
	03CH15-HY		

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

### 1.5 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:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 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 two configurations, with accessories and without accessories. The worst cases (without accessories) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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

**Note:**

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





## 2.2 Test Mode

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

### Single 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

### 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

### TXBF Mode

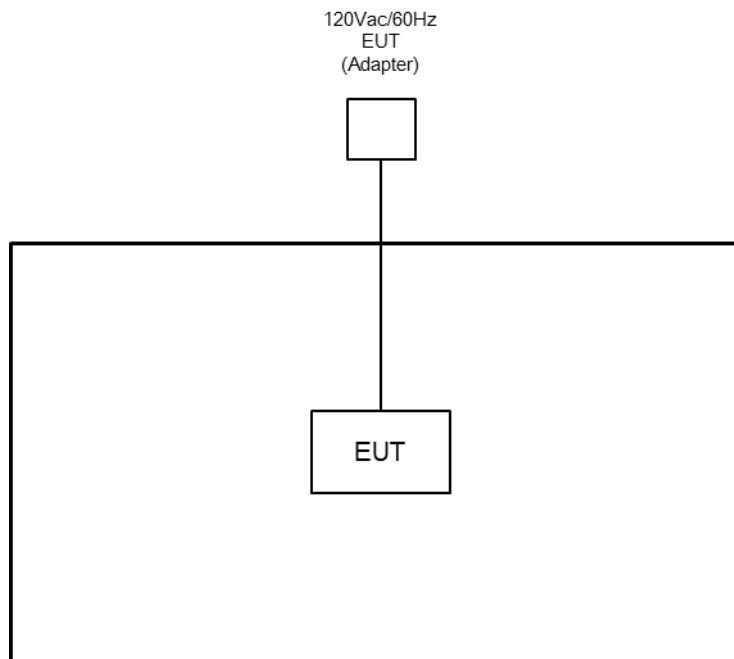
Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : WLAN (5GHz) Link + Bluetooth Link with Bluetooth Speaker + DVD player Connect Coaxial IN port + 600 ohm load connect Line IN port + 75 ohm load connect Coaxial OUT port + 600 ohm load connect Subwoofer OUT port + 600 ohm load connect Line OUT port + MP3 from Coaxial IN port + Adapter

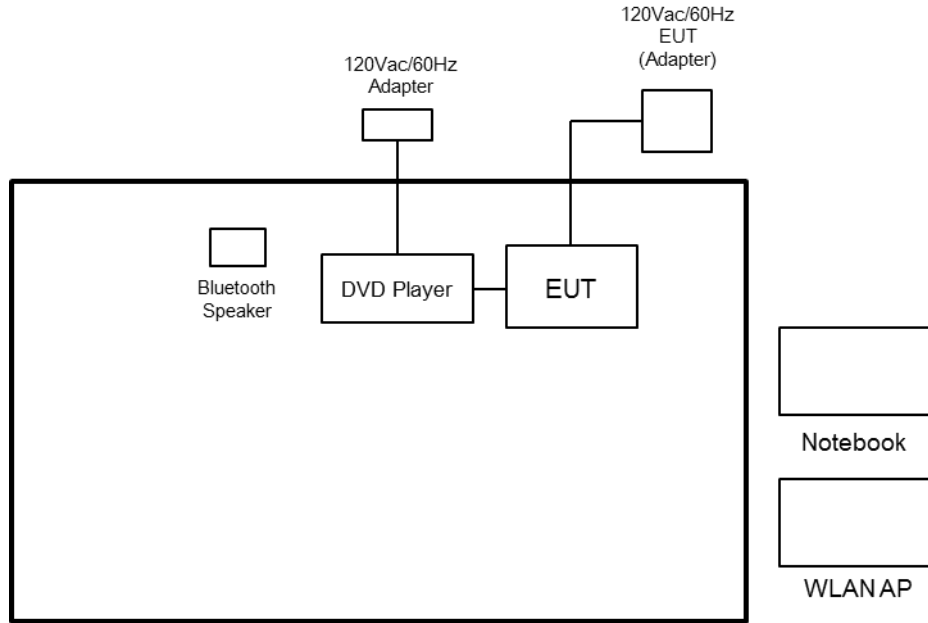
Ch. #		Band I : 5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
M	Middle	44	44	-	42
H	High	48	48	46	-

### 2.3 Connection Diagram of Test System

<WLAN Tx Mode>



**<AC Conducted Emission Mode>**



**2.4 Support Unit used in test configuration and system**

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Speaker	Jambox	Mini Jambox	FCC DoC	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
3.	DVD Player	Sony	BDP-S370	FCC DoC	Unshielded, 1.2m	N/A
4.	Notebook	ASUS	P2430U	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

**2.5 EUT Operation Test Setup**

The RF test items, utility “CMD” 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.

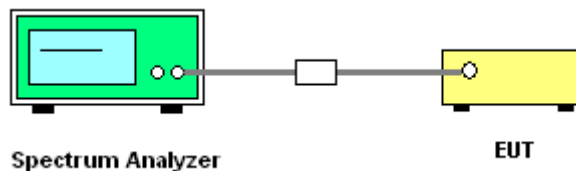
##### 3.1.2 Measuring Instruments

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

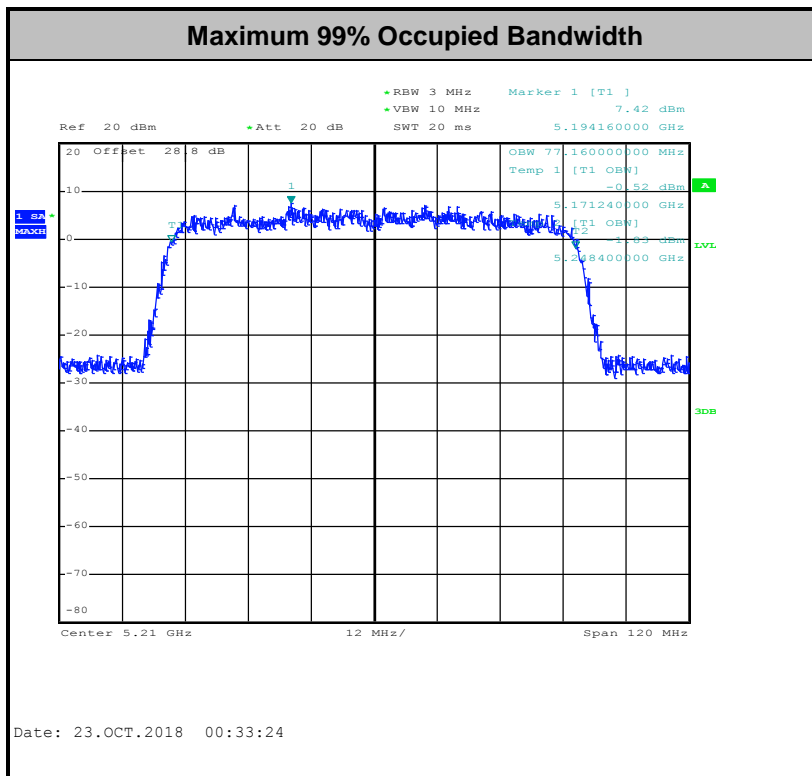
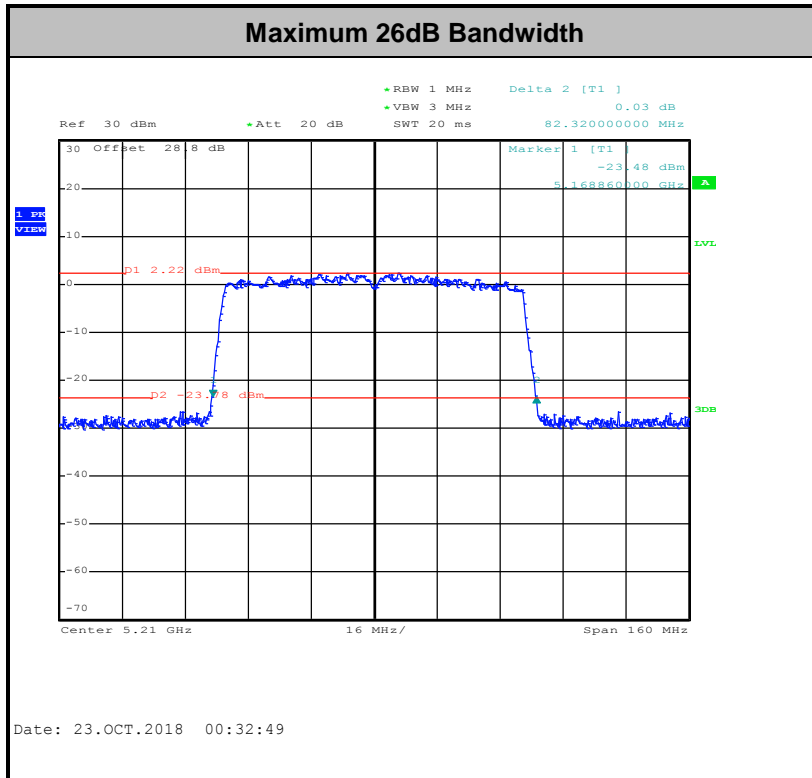


##### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



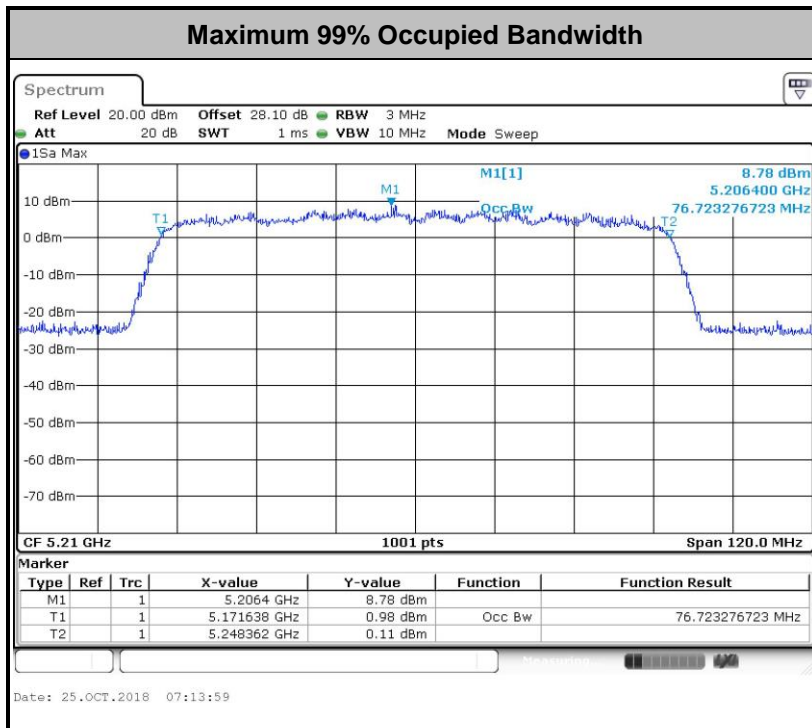
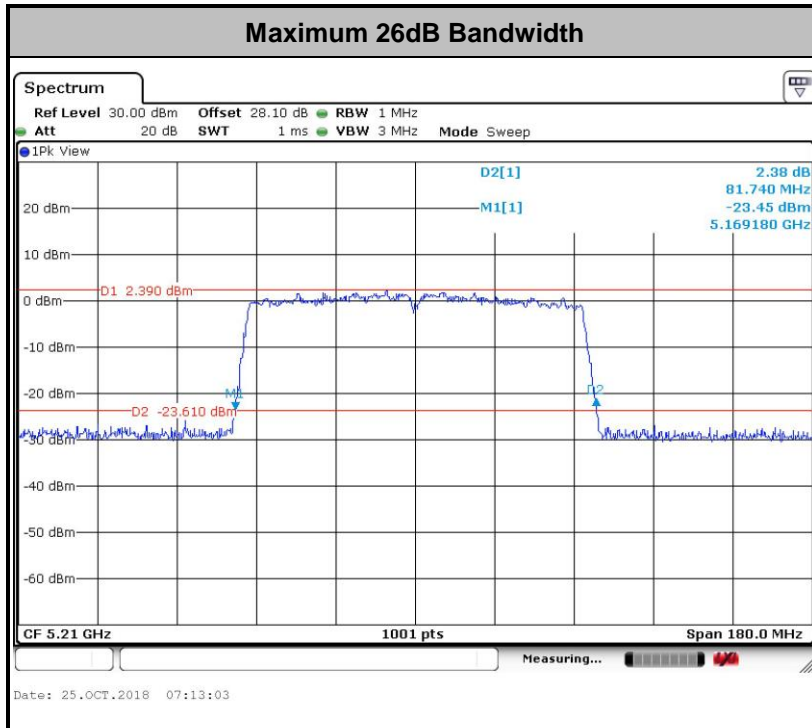
<CDD Mode>



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



<TXBF Modes>



**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.

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

#### <CDD Modes>

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.

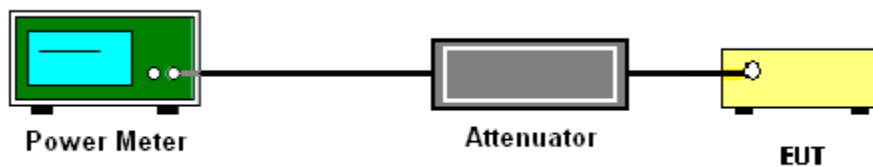


**<TXBF Modes>**

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

Method PM-G (Measurement using a gated 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.

**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.

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.

#### <CDD Modes>

##### # 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.

#### <TXBF Modes>

##### # Method SA-3 #

(power averaging (rms) detection with max hold):

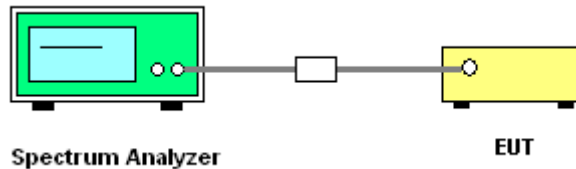
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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

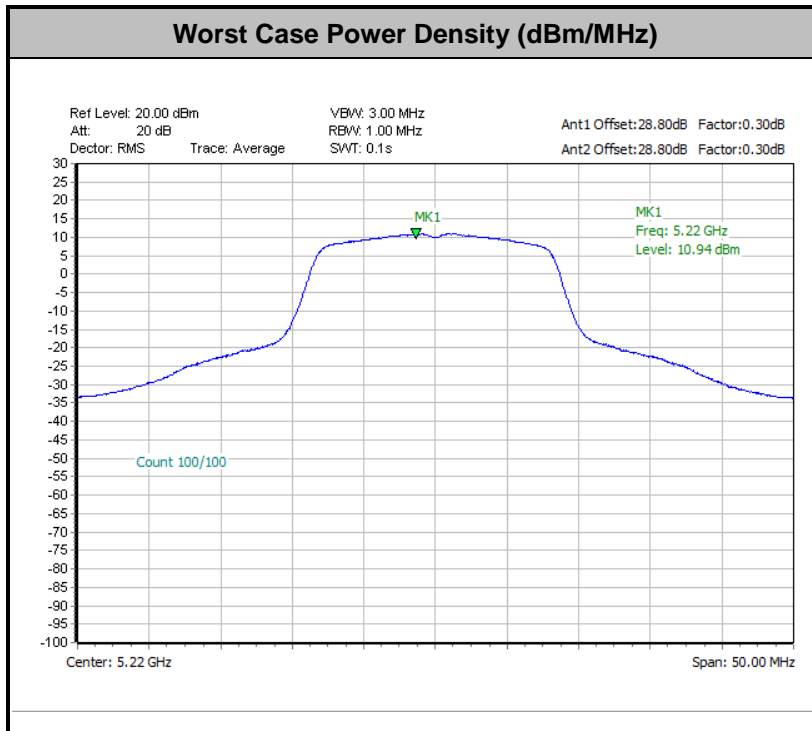


### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

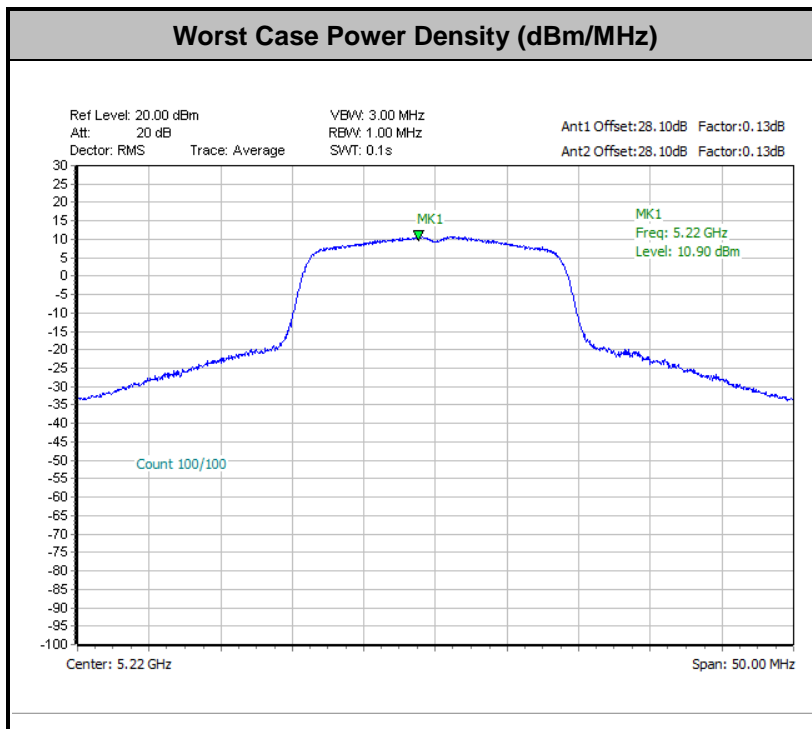


<CDD Modes>



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

<TXBF Modes>





### 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.
- (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.

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



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

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

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.<sup>3</sup>
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.<sup>4</sup>

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

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

### 3.4.2 Measuring Instruments

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



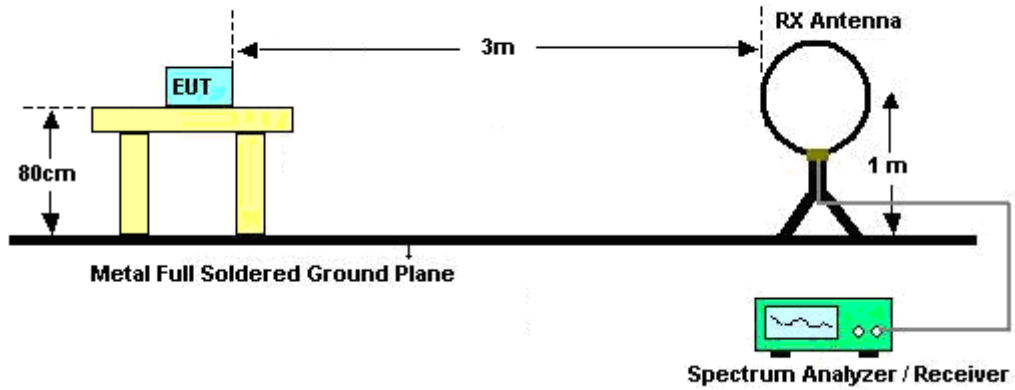
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

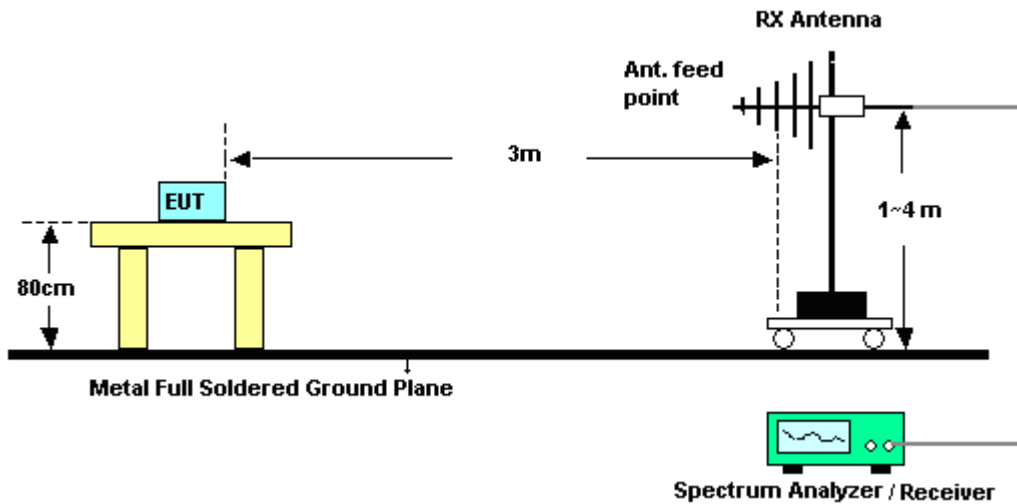


### 3.4.4 Test Setup

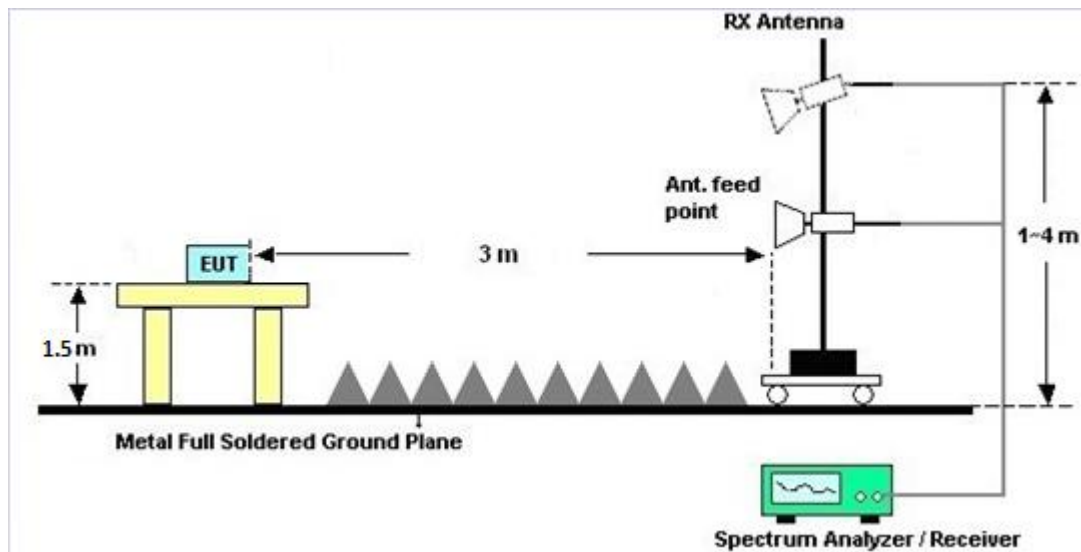
For radiated emissions below 30MHz



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 C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

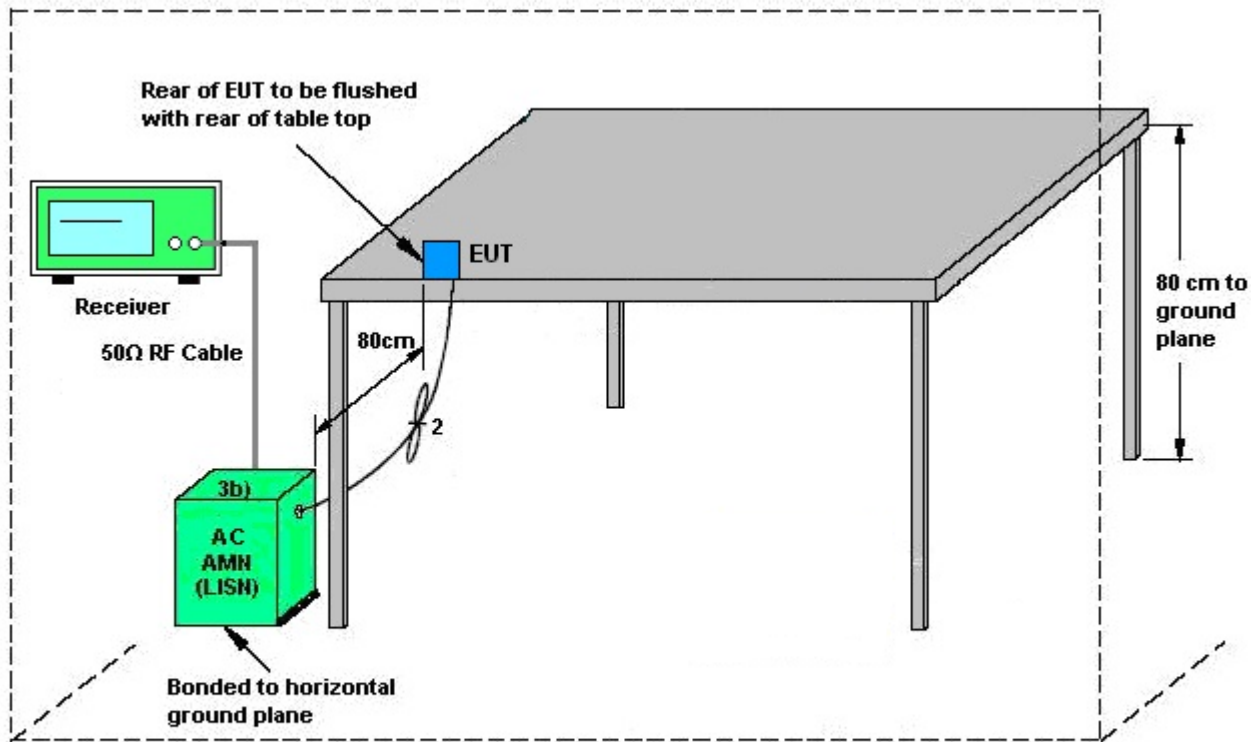
#### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



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

### 3.5.5 Test Result of AC Conducted Emission

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**

See list of measuring equipment of this test report.

### **3.6.3 Test Result of Automatically Discontinue Transmission**

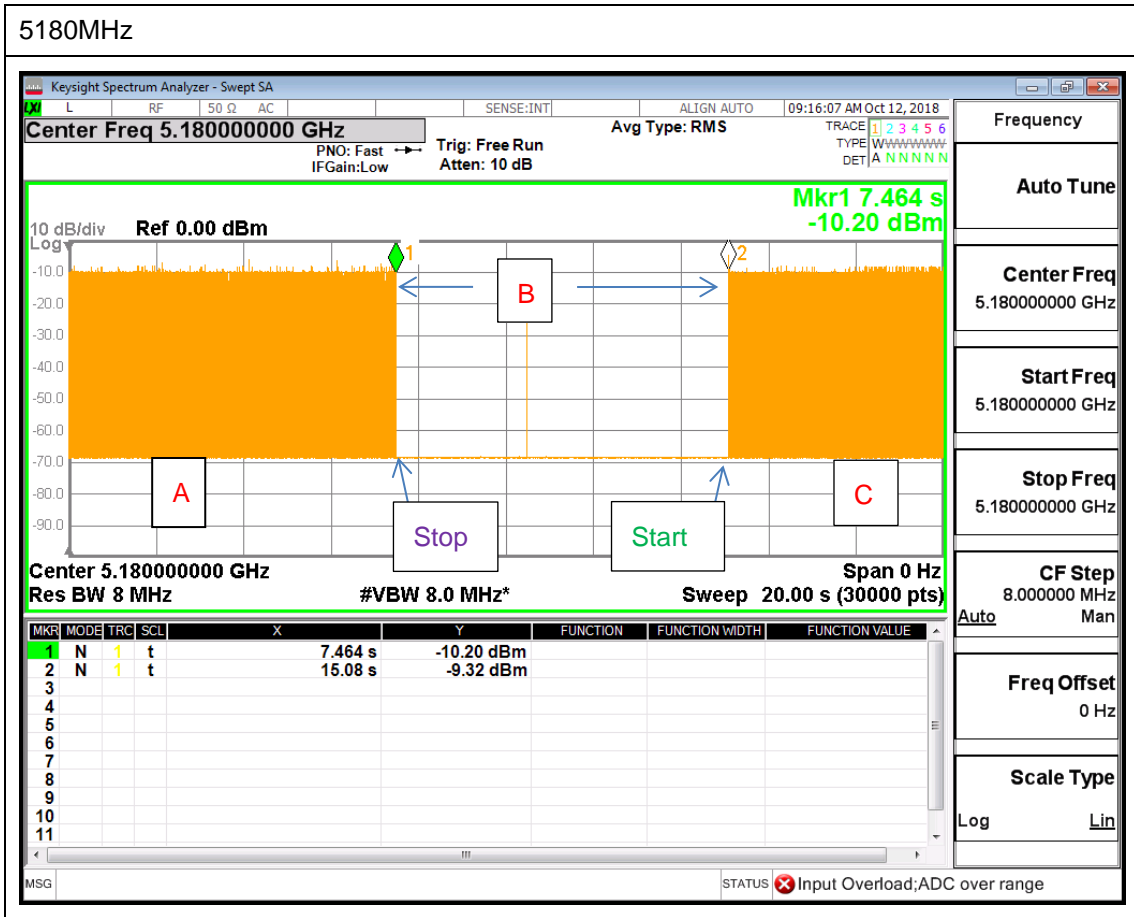
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- 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.



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



### 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

<CDD Modes >

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.

<b>&lt;CDD Modes&gt;</b>						
			<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
	<b>Ant. 1</b>	<b>Ant. 2</b>	<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>Band I</b>	4.19	1.40	4.19	5.92	0.00	0.00

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

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

**TXBF modes**

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)				
<b>Band I</b>	4.19	1.40	5.92	5.92	0.00	0.00

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

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





## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<b>&lt;CDD Mode&gt;</b>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Oct. 01, 2018~ Oct. 23, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Oct. 01, 2018~ Oct. 23, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Oct. 01, 2018~ Oct. 23, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Oct. 01, 2018~ Oct. 23, 2018	Feb. 28, 2019	Conducted (TH05-HY)
<b>&lt;TXBF Mode&gt;</b>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Oct. 10, 2018~ Oct. 25, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Oct. 10, 2018~ Oct. 25, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Oct. 10, 2018~ Oct. 25, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 07, 2017	Oct. 10, 2018~ Oct. 25, 2018	Nov. 06, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Oct. 10, 2018~ Oct. 25, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 14, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Oct. 14, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Oct. 14, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Oct. 14, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 14, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Oct. 14, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Oct. 14, 2018	Jan. 02, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Oct. 12, 2018~ Oct. 22, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 00550006	1GHz~18GHz	Jul. 10, 2018	Oct. 12, 2018~ Oct. 22, 2018	Jul. 09, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Oct. 12, 2018~ Oct. 22, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N- 06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Oct. 12, 2018~ Oct. 22, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE )	MY541300 85	20Hz ~ 8.4GHz	Oct. 31, 2017	Oct. 12, 2018~ Oct. 22, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	BBHA 9120 D 1212	1GHz ~ 18GHz	May 10, 2018	Oct. 12, 2018~ Oct. 22, 2018	May 09, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 07, 2018	Oct. 12, 2018~ Oct. 22, 2018	Sep. 06, 2019	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2018	Oct. 12, 2018~ Oct. 22, 2018	Aug. 22, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 25, 2018	Oct. 12, 2018~ Oct. 22, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 12, 2018~ Oct. 22, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 12, 2018~ Oct. 22, 2018	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Oct. 12, 2018~ Oct. 22, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-00045 1	N/A	N/A	Oct. 12, 2018~ Oct. 22, 2018	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/ 4, MY9838/4 PE, D3210	30MHz~1GHz	Mar. 15, 2018	Oct. 12, 2018~ Oct. 22, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/ 4, MY9838/4 PE, D3210	1GHz~18GHz	Mar. 15, 2018	Oct. 12, 2018~ Oct. 22, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 14, 2018	Oct. 12, 2018~ Oct. 22, 2018	Mar. 13, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY571201 84	10Hz~7GHz	Nov. 08, 2017	Oct. 12, 2018	Nov. 07, 2018	DFS (DFS02-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.2
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.5
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2
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**Appendix A. Test Result of Conducted Test Items****<CDD Mode>**

Test Engineer:	Shiang Wang/AnAn Wu	Temperature:	21~25	°C
Test Date:	2018/9/29~2018/10/23	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band I													
Mod.	Data Rate	N <sub>TX</sub>	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	1	36	5180	16.80	16.95	26.40	29.68	-	-	22.25	22.29	
11a	6Mbps	1	44	5220	16.95	17.00	34.70	34.05	-	-	22.29	22.30	
11a	6Mbps	1	48	5240	17.10	16.95	34.10	35.80	-	-	22.33	22.29	
HT20	MCS0	1	36	5180	17.75	17.90	29.50	32.90	-	-	22.49	22.53	
HT20	MCS0	1	44	5220	17.90	17.90	32.05	31.70	-	-	22.53	22.53	
HT20	MCS0	1	48	5240	17.90	17.90	33.40	31.55	-	-	22.53	22.53	
HT40	MCS0	1	38	5190	36.40	36.40	41.40	41.40	-	-	23.01	23.01	
HT40	MCS0	1	46	5230	36.70	36.70	69.93	69.66	-	-	23.01	23.01	
VHT80	MCS0	1	42	5210	76.92	76.92	81.92	82.15	-	-	23.01	23.01	
11a	6Mbps	2	36	5180	16.70	16.55	22.75	26.90	-	-	22.19		
11a	6Mbps	2	44	5220	16.85	16.60	28.35	27.75	-	-	22.20		
11a	6Mbps	2	48	5240	16.90	16.60	27.30	28.50	-	-	22.20		
HT20	MCS0	2	36	5180	17.75	17.65	28.65	28.55	-	-	22.47		
HT20	MCS0	2	44	5220	17.85	17.75	31.90	30.85	-	-	22.49		
HT20	MCS0	2	48	5240	17.85	17.75	32.25	30.30	-	-	22.49		
HT40	MCS0	2	38	5190	36.50	36.50	41.58	41.40	-	-	23.01		
HT40	MCS0	2	46	5230	36.90	36.90	69.12	69.11	-	-	23.01		
VHT80	MCS0	2	42	5210	77.16	76.80	82.32	80.96	-	-	23.01		

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band I														
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.32	0.32	18.10	18.15		24.00	24.00	4.19	1.40	Pass
11a	6Mbps	1	44	5220	0.32	0.32	19.67	19.68		24.00	24.00	4.19	1.40	Pass
11a	6Mbps	1	48	5240	0.32	0.32	19.70	19.71		24.00	24.00	4.19	1.40	Pass
HT20	MCS0	1	36	5180	0.32	0.32	17.93	18.07		24.00	24.00	4.19	1.40	Pass
HT20	MCS0	1	44	5220	0.32	0.32	18.53	18.67		24.00	24.00	4.19	1.40	Pass
HT20	MCS0	1	48	5240	0.32	0.32	18.61	18.62		24.00	24.00	4.19	1.40	Pass
HT40	MCS0	1	38	5190	0.59	0.66	14.14	14.13		24.00	24.00	4.19	1.40	Pass
HT40	MCS0	1	46	5230	0.59	0.66	18.71	18.56		24.00	24.00	4.19	1.40	Pass
VHT20	MCS0	1	36	5180	0.32	0.30	17.90	18.00		24.00	24.00	4.19	1.40	Pass
VHT20	MCS0	1	44	5220	0.32	0.30	18.47	18.58		24.00	24.00	4.19	1.40	Pass
VHT20	MCS0	1	48	5240	0.32	0.30	18.51	18.61		24.00	24.00	4.19	1.40	Pass
VHT40	MCS0	1	38	5190	0.60	0.62	14.10	14.07		24.00	24.00	4.19	1.40	Pass
VHT40	MCS0	1	46	5230	0.60	0.62	18.67	18.43		24.00	24.00	4.19	1.40	Pass
VHT80	MCS0	1	42	5210	1.17	1.16	11.34	13.24		24.00	24.00	4.19	1.40	Pass
11a	6Mbps	2	36	5180	0.30	0.30	16.96	17.02	20.00	24.00		4.19		Pass
11a	6Mbps	2	44	5220	0.30	0.30	18.49	18.13	21.32	24.00		4.19		Pass
11a	6Mbps	2	48	5240	0.30	0.30	18.51	18.15	21.34	24.00		4.19		Pass
HT20	MCS0	2	36	5180	0.32	0.32	16.35	16.64	19.51	24.00		4.19		Pass
HT20	MCS0	2	44	5220	0.32	0.32	18.24	18.12	21.19	24.00		4.19		Pass
HT20	MCS0	2	48	5240	0.32	0.32	18.42	18.25	21.35	24.00		4.19		Pass
HT40	MCS0	2	38	5190	0.62	0.64	12.09	11.55	14.84	24.00		4.19		Pass
HT40	MCS0	2	46	5230	0.62	0.64	18.93	18.75	21.85	24.00		4.19		Pass
VHT20	MCS0	2	36	5180	0.30	0.32	16.29	16.54	19.43	24.00		4.19		Pass
VHT20	MCS0	2	44	5220	0.30	0.32	18.20	18.07	21.15	24.00		4.19		Pass
VHT20	MCS0	2	48	5240	0.30	0.32	18.35	18.21	21.29	24.00		4.19		Pass
VHT40	MCS0	2	38	5190	0.63	0.60	11.94	11.50	14.74	24.00		4.19		Pass
VHT40	MCS0	2	46	5230	0.63	0.60	18.88	18.66	21.78	24.00		4.19		Pass
VHT80	MCS0	2	42	5210	1.16	1.20	10.39	9.64	13.04	24.00		4.19		Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

FCC Band I														
Mod.	Data Rate	N <sub>TX</sub>	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	1	36	5180	0.32	0.32	7.90	7.87		11.00	11.00	4.19	1.40	Pass
11a	6Mbps	1	44	5220	0.32	0.32	9.91	9.57		11.00	11.00	4.19	1.40	Pass
11a	6Mbps	1	48	5240	0.32	0.32	9.93	9.72		11.00	11.00	4.19	1.40	Pass
HT20	MCS0	1	36	5180	0.32	0.32	7.50	7.54		11.00	11.00	4.19	1.40	Pass
HT20	MCS0	1	44	5220	0.32	0.32	8.66	8.39		11.00	11.00	4.19	1.40	Pass
HT20	MCS0	1	48	5240	0.32	0.32	8.89	8.45		11.00	11.00	4.19	1.40	Pass
HT40	MCS0	1	38	5190	0.59	0.66	0.23	0.09		11.00	11.00	4.19	1.40	Pass
HT40	MCS0	1	46	5230	0.59	0.66	5.26	5.17		11.00	11.00	4.19	1.40	Pass
VHT80	MCS0	1	42	5210	1.17	1.16	-5.99	-3.70		11.00	11.00	4.19	1.40	Pass
11a	6Mbps	2	36	5180	0.30	0.30			9.65	11.00		5.92		Pass
11a	6Mbps	2	44	5220	0.30	0.30			10.94	11.00		5.92		Pass
11a	6Mbps	2	48	5240	0.30	0.30			10.85	11.00		5.92		Pass
HT20	MCS0	2	36	5180	0.32	0.32			9.05	11.00		5.92		Pass
HT20	MCS0	2	44	5220	0.32	0.32			10.66	11.00		5.92		Pass
HT20	MCS0	2	48	5240	0.32	0.32			10.66	11.00		5.92		Pass
HT40	MCS0	2	38	5190	0.62	0.64			1.02	11.00		5.92		Pass
HT40	MCS0	2	46	5230	0.62	0.64			8.29	11.00		5.92		Pass
VHT80	MCS0	2	42	5210	1.16	1.20			-4.58	11.00		5.92		Pass

<TXBF Mode>

Test Engineer:	Shiang Wang	Temperature:	21~25	°C
Test Date:	2018/10/10~2018/10/25	Relative Humidity:	51~54	%



**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	36	5180	17.73	17.58	25.07	25.92	-	-	22.45	-	
VHT20	MCS0	2	44	5220	17.93	17.68	33.07	29.92	-	-	22.47	-	
VHT20	MCS0	2	48	5240	17.93	17.68	32.77	30.17	-	-	22.47	-	
VHT40	MCS0	2	38	5190	36.46	36.66	41.45	41.18	-	-	23.01	-	
VHT40	MCS0	2	46	5230	37.76	37.66	74.81	68.51	-	-	23.01	-	
VHT80	MCS0	2	42	5210	76.72	76.36	81.74	80.20	-	-	23.01	-	

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	36	5180	0.13	0.13	16.17	16.84	19.53	24.00	24.00	5.92	5.92	Pass
VHT20	MCS0	2	44	5220	0.13	0.13	17.69	17.80	20.76	24.00	24.00	5.92	5.92	Pass
VHT20	MCS0	2	48	5240	0.13	0.13	17.71	17.81	20.77	24.00	24.00	5.92	5.92	Pass
VHT40	MCS0	2	38	5190	0.26	0.26	11.39	11.18	14.30	24.00	24.00	5.92	5.92	Pass
VHT40	MCS0	2	46	5230	0.26	0.26	19.51	19.47	22.50	24.00	24.00	5.92	5.92	Pass
VHT80	MCS0	2	42	5210	0.46	0.46	8.64	7.92	11.30	24.00	24.00	5.92	5.92	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	36	5180	0.13	0.13			9.48	11.00	5.92			Pass
VHT20	MCS0	2	44	5220	0.13	0.13			10.90	11.00	5.92			Pass
VHT20	MCS0	2	48	5240	0.13	0.13			10.81	11.00	5.92			Pass
VHT40	MCS0	2	38	5190	0.26	0.26			1.33	11.00	5.92			Pass
VHT40	MCS0	2	46	5230	0.26	0.26			8.97	11.00	5.92			Pass
VHT80	MCS0	2	42	5210	0.46	0.46			-4.83	11.00	5.92			Pass



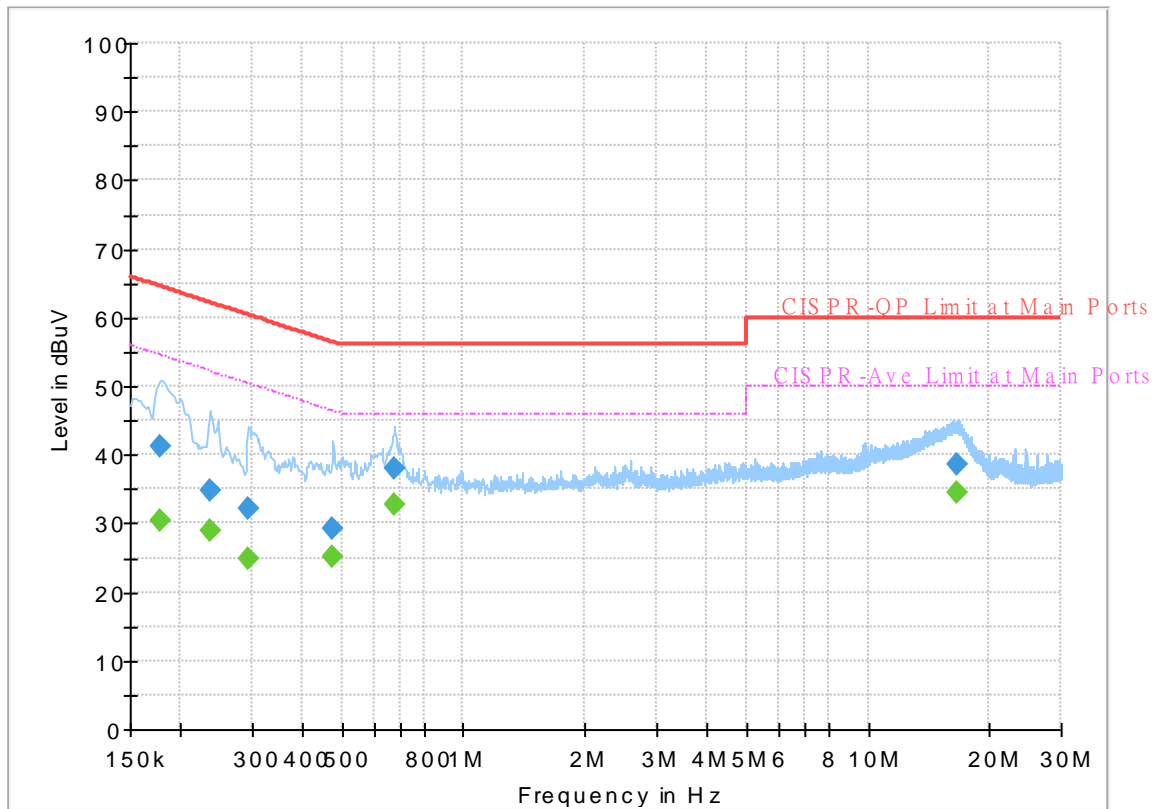
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Rick Lin	Temperature :	22~25°C
		Relative Humidity :	52~55%

## EUT Information

Report NO : 842409-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



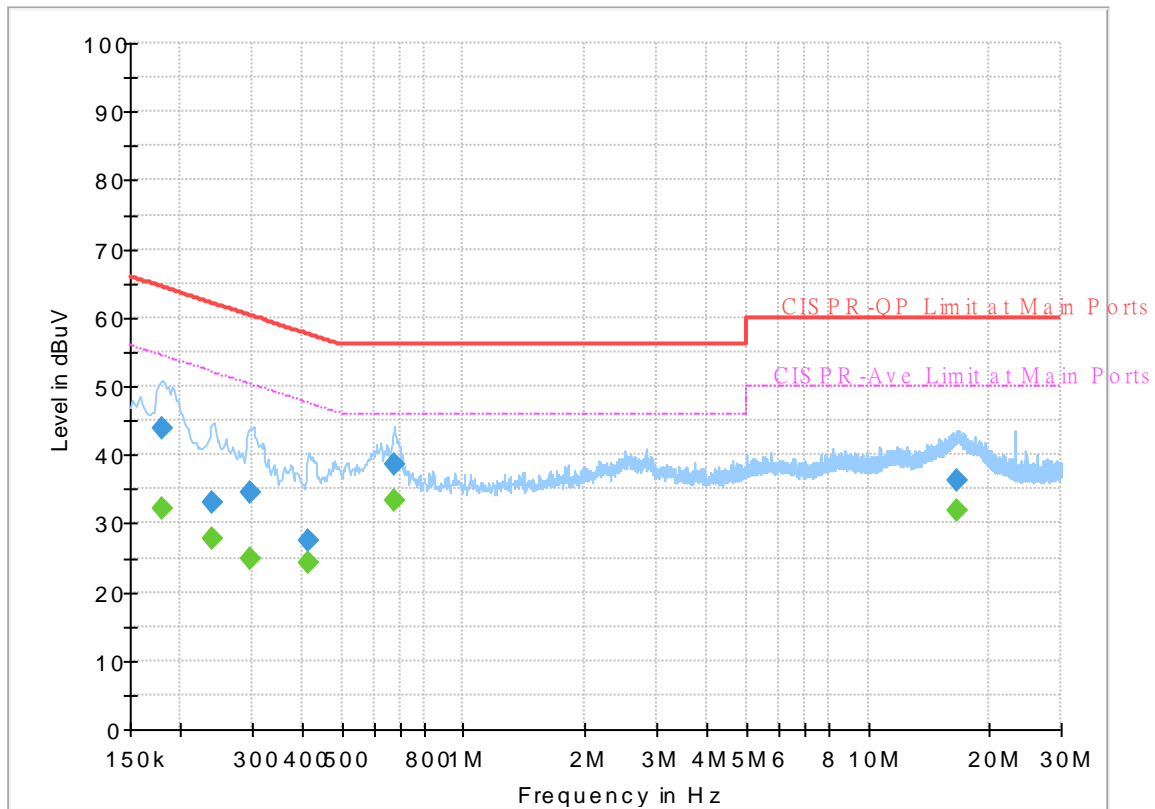
## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	30.32	54.63	24.31	L1	OFF	19.5
0.177000	41.30	---	64.63	23.33	L1	OFF	19.5
0.235500	---	29.00	52.25	23.25	L1	OFF	19.5
0.235500	34.87	---	62.25	27.38	L1	OFF	19.5
0.294000	---	24.88	50.41	25.53	L1	OFF	19.5
0.294000	32.28	---	60.41	28.13	L1	OFF	19.5
0.476250	---	25.13	46.40	21.27	L1	OFF	19.5
0.476250	29.18	---	56.40	27.22	L1	OFF	19.5
0.676500	---	32.77	46.00	13.23	L1	OFF	19.6
0.676500	38.14	---	56.00	17.86	L1	OFF	19.6
16.575000	---	34.54	50.00	15.46	L1	OFF	20.1
16.575000	38.66	---	60.00	21.34	L1	OFF	20.1

## EUT Information

Report NO : 842409-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	32.23	54.52	22.29	N	OFF	19.5
0.179250	43.81	---	64.52	20.71	N	OFF	19.5
0.240000	---	27.75	52.10	24.35	N	OFF	19.5
0.240000	33.07	---	62.10	29.03	N	OFF	19.5
0.298500	---	24.93	50.28	25.35	N	OFF	19.5
0.298500	34.57	---	60.28	25.71	N	OFF	19.5
0.415500	---	24.26	47.54	23.28	N	OFF	19.5
0.415500	27.51	---	57.54	30.03	N	OFF	19.5
0.676500	---	33.40	46.00	12.60	N	OFF	19.6
0.676500	38.53	---	56.00	17.47	N	OFF	19.6
16.651500	---	31.76	50.00	18.24	N	OFF	20.2
16.651500	36.19	---	60.00	23.81	N	OFF	20.2



## Appendix C. Radiated Spurious Emission

<b>Test Engineer :</b>	Watt Tseng, Karl Hou, and Big show Wang	<b>Temperature :</b>	22~25°C
		<b>Relative Humidity :</b>	51~58%



<CDD Mode>

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

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11a CH 36 (5180MHz) and 802.11a CH 44 (5220MHz).





<b>802.11a</b> <b>CH 48</b> <b>5240MHz</b>		5140.92	55.2	-18.8	74	44.04	32.63	8.63	30.1	298	289	P	H
		5144.3	45.43	-8.57	54	34.27	32.63	8.63	30.1	298	289	A	H
	*	5240	115.81	-	-	104.66	32.51	8.75	30.11	298	289	P	H
	*	5240	108.58	-	-	97.43	32.51	8.75	30.11	298	289	A	H
		5353.6	53.08	-20.92	74	41.81	32.38	9.01	30.12	298	289	P	H
		5352.76	44.09	-9.91	54	32.83	32.38	9	30.12	298	289	A	H
		5108.16	51.54	-22.46	74	40.35	32.67	8.61	30.09	343	30	P	V
		5120.64	42.9	-11.1	54	31.72	32.66	8.62	30.1	343	30	A	V
	*	5240	113	-	-	101.85	32.51	8.75	30.11	343	30	P	V
	*	5240	105.68	-	-	94.53	32.51	8.75	30.11	343	30	A	V
		5364.8	51.02	-22.98	74	39.75	32.36	9.03	30.12	343	30	P	V
		5350.24	42.6	-11.4	54	31.34	32.38	9	30.12	343	30	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. 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	45.77	-22.43	68.2	53.89	39.9	13.33	61.35	100	0	P	H
		15540	45.07	-28.93	74	52.94	37.9	16.67	62.44	100	0	P	H
		10360	45.74	-22.46	68.2	53.86	39.9	13.33	61.35	100	0	P	V
		15540	45.43	-28.57	74	53.3	37.9	16.67	62.44	100	0	P	V
802.11a CH 44 5220MHz		10440	44.91	-23.29	68.2	53	40.02	13.38	61.49	100	0	P	H
		15660	46.98	-27.02	74	54.45	37.9	16.87	62.24	100	0	P	H
		10440	45.96	-22.24	68.2	54.05	40.02	13.38	61.49	100	0	P	V
		15660	44.47	-29.53	74	51.94	37.9	16.87	62.24	100	0	P	V
802.11a CH 48 5240MHz		10480	46.39	-21.81	68.2	54.48	40.07	13.4	61.56	100	0	P	H
		15720	46.86	-27.14	74	54.16	37.9	16.95	62.15	100	0	P	H
		10480	46.3	-21.9	68.2	54.39	40.07	13.4	61.56	100	0	P	V
		15720	46.07	-27.93	74	53.37	37.9	16.95	62.15	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT20 CH 36 (5180MHz) and 802.11n HT20 CH 44 (5220MHz).



<b>802.11n</b> <b>HT20</b> <b>CH 48</b> <b>5240MHz</b>		5148.46	54.48	-19.52	74	43.33	32.62	8.63	30.1	298	289	P	H
		5141.96	45.75	-8.25	54	34.59	32.63	8.63	30.1	298	289	A	H
	*	5240	114.81	-	-	103.66	32.51	8.75	30.11	298	289	P	H
	*	5240	107.6	-	-	96.45	32.51	8.75	30.11	298	289	A	H
		5368.16	52.45	-21.55	74	41.17	32.36	9.04	30.12	298	289	P	H
		5351.64	44.02	-9.98	54	32.76	32.38	9	30.12	298	289	A	H
		5110.5	51.5	-22.5	74	40.3	32.67	8.62	30.09	344	31	P	V
		5113.62	43.18	-10.82	54	31.99	32.66	8.62	30.09	344	31	A	V
	*	5240	112.08	-	-	100.93	32.51	8.75	30.11	344	31	P	V
	*	5240	104.53	-	-	93.38	32.51	8.75	30.11	344	31	A	V
		5457.2	51.34	-22.66	74	40.11	32.25	9.12	30.14	344	31	P	V
		5357.52	42.33	-11.67	54	31.07	32.37	9.01	30.12	344	31	A	V
<b>Remark</b>	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)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT20 CH 36 (5180MHz) and 802.11n HT20 CH 44 (5220MHz).

Remark

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



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

WIFI Ant. 1	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		5149.24	61.41	-12.59	74	50.26	32.62	8.63	30.1	284	290	P	H
		5150	53.34	-0.66	54	42.18	32.62	8.64	30.1	284	290	A	H
	*	5190	106.3	-	-	95.18	32.57	8.65	30.1	284	290	P	H
	*	5190	99.2	-	-	88.08	32.57	8.65	30.1	284	290	A	H
		5369.84	51.45	-22.55	74	40.17	32.36	9.04	30.12	284	290	P	H
		5351.92	43.36	-10.64	54	32.1	32.38	9	30.12	284	290	A	H
		5147.94	60.39	-13.61	74	49.24	32.62	8.63	30.1	330	29	P	V
		5149.5	48.58	-5.42	54	37.43	32.62	8.63	30.1	330	29	A	V
	*	5190	103.19	-	-	92.07	32.57	8.65	30.1	330	29	P	V
	*	5190	95.62	-	-	84.5	32.57	8.65	30.1	330	29	A	V
		5455.52	50.87	-23.13	74	39.64	32.25	9.12	30.14	330	29	P	V
		5357.8	42.83	-11.17	54	31.56	32.37	9.02	30.12	330	29	A	V
802.11n HT40 CH 46 5230MHz		5147.42	58.32	-15.68	74	47.17	32.62	8.63	30.1	297	292	P	H
		5150	49.65	-4.35	54	38.49	32.62	8.64	30.1	297	292	A	H
	*	5230	111.63	-	-	100.49	32.52	8.73	30.11	297	292	P	H
	*	5230	104.35	-	-	93.21	32.52	8.73	30.11	297	292	A	H
		5358.64	52.14	-21.86	74	40.87	32.37	9.02	30.12	297	292	P	H
		5353.04	44.77	-9.23	54	33.51	32.38	9	30.12	297	292	A	H
		5149.76	52.7	-21.3	74	41.55	32.62	8.63	30.1	347	28	P	V
		5149.76	45.5	-8.5	54	34.35	32.62	8.63	30.1	347	28	A	V
	*	5230	109.12	-	-	97.98	32.52	8.73	30.11	347	28	P	V
	*	5230	101.83	-	-	90.69	32.52	8.73	30.11	347	28	A	V
	5356.96	51.81	-22.19	74	40.55	32.37	9.01	30.12	347	28	P	V	
	5353.04	43.65	-10.35	54	32.39	32.38	9	30.12	347	28	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)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT40 CH 38 (5190MHz) and 802.11n HT40 CH 46 (5230MHz).

- 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. 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		5149.76	60.45	-13.55	74	49.3	32.62	8.63	30.1	300	292	P	H
		5144.82	53.4	-0.6	54	42.24	32.63	8.63	30.1	300	292	A	H
	*	5210	100.59	-	-	89.47	32.55	8.68	30.11	300	292	P	H
	*	5210	93.63	-	-	82.51	32.55	8.68	30.11	300	292	A	H
		5367.32	51.27	-22.73	74	39.99	32.36	9.04	30.12	300	292	P	H
		5440.68	44.41	-9.59	54	33.15	32.27	9.12	30.13	300	292	A	H
		5135.72	55.69	-18.31	74	44.52	32.64	8.63	30.1	365	31	P	V
		5148.46	49.61	-4.39	54	38.46	32.62	8.63	30.1	365	31	A	V
	*	5210	97.91	-	-	86.79	32.55	8.68	30.11	365	31	P	V
	*	5210	91.07	-	-	79.95	32.55	8.68	30.11	365	31	A	V
		5439.28	50.56	-23.44	74	39.3	32.27	9.12	30.13	365	31	P	V
	5360.04	44.26	-9.74	54	32.99	32.37	9.02	30.12	365	31	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. 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	45.08	-23.12	68.2	53.19	39.99	13.36	61.46	100	0	P	H
		15630	45.12	-28.88	74	52.69	37.9	16.82	62.29	100	0	P	H
		10420	45.21	-22.99	68.2	53.32	39.99	13.36	61.46	100	0	P	V
		15630	44.89	-29.11	74	52.46	37.9	16.82	62.29	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Emission below 1GHz**

**WIFI 802.11 ac VHT80 (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		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
<b>802.11ac VHT80 LF</b>		86.97	24.32	-15.68	40	41.26	14.4	1.14	32.58	-	-	P	H
		213.06	23.86	-19.64	43.5	38.66	15.85	1.75	32.54	-	-	P	H
		298.38	27.69	-18.31	46	38.62	19.39	2.06	32.53	-	-	P	H
		650	34.41	-11.59	46	37.25	26.55	2.98	32.53	-	-	P	H
		750.1	36.02	-9.98	46	36.93	28.13	3.19	32.36	-	-	P	H
		872.6	38.06	-7.94	46	37.08	29.13	3.48	31.84	100	0	P	H
		31.62	27.24	-12.76	40	35.59	23.61	0.69	32.65	-	-	P	V
		149.88	24.31	-19.19	43.5	38.12	17.16	1.46	32.56	-	-	P	V
		250.05	25.71	-20.29	46	37.29	18.91	1.89	32.53	-	-	P	V
		449.8	31.67	-14.33	46	38.36	23.26	2.5	32.54	-	-	P	V
		650	36.06	-9.94	46	38.9	26.55	2.98	32.53	-	-	P	V
		848.8	37.27	-8.73	46	36.35	29.26	3.45	31.97	100	0	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against limit line.												



**Band 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.
2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 36 5180MHz		5148.46	62.8	-11.2	74	51.65	32.62	8.63	30.1	100	291	P	H
		5149.76	52.58	-1.42	54	41.43	32.62	8.63	30.1	100	291	A	H
	*	5180	113.34	-	-	102.21	32.58	8.65	30.1	100	291	P	H
	*	5180	105.96	-	-	94.83	32.58	8.65	30.1	100	291	A	H
		5150	61.4	-12.6	74	50.24	32.62	8.64	30.1	347	357	P	V
		5149.76	49.16	-4.84	54	38.01	32.62	8.63	30.1	347	357	A	V
	*	5180	111.07	-	-	99.94	32.58	8.65	30.1	347	357	P	V
	*	5180	103.43	-	-	92.3	32.58	8.65	30.1	347	357	A	V
802.11a CH 44 5220MHz		5149.5	55.6	-18.4	74	44.45	32.62	8.63	30.1	100	286	P	H
		5149.76	46.91	-7.09	54	35.76	32.62	8.63	30.1	100	286	A	H
	*	5220	114.53	-	-	103.4	32.54	8.7	30.11	100	286	P	H
	*	5220	107.1	-	-	95.97	32.54	8.7	30.11	100	286	A	H
		5358.92	53.3	-20.7	74	42.03	32.37	9.02	30.12	100	286	P	H
		5351.64	44.75	-9.25	54	33.49	32.38	9	30.12	100	286	A	H
		5146.38	53.67	-20.33	74	42.52	32.62	8.63	30.1	400	346	P	V
		5148.46	44.99	-9.01	54	33.84	32.62	8.63	30.1	400	346	A	V
	*	5220	112.15	-	-	101.02	32.54	8.7	30.11	400	346	P	V
	*	5220	104.82	-	-	93.69	32.54	8.7	30.11	400	346	A	V
		5359.2	52.04	-21.96	74	40.77	32.37	9.02	30.12	400	346	P	V
		5351.08	43.55	-10.45	54	32.29	32.38	9	30.12	400	346	A	V



<b>802.11a CH 48 5240MHz</b>		5150	55.61	-18.39	74	44.45	32.62	8.64	30.1	100	286	P	H
		5148.46	46.24	-7.76	54	35.09	32.62	8.63	30.1	100	286	A	H
	*	5240	115.2	-	-	104.05	32.51	8.75	30.11	100	286	P	H
	*	5240	107.66	-	-	96.51	32.51	8.75	30.11	100	286	A	H
		5350.52	54.23	-19.77	74	42.97	32.38	9	30.12	100	286	P	H
		5351.36	45.66	-8.34	54	34.4	32.38	9	30.12	100	286	A	H
		5123.24	53.17	-20.83	74	42	32.65	8.62	30.1	400	349	P	V
		5145.6	44.71	-9.29	54	33.55	32.63	8.63	30.1	400	349	A	V
	*	5240	112.25	-	-	101.1	32.51	8.75	30.11	400	349	P	V
	*	5240	104.69	-	-	93.54	32.51	8.75	30.11	400	349	A	V
		5365.36	52.18	-21.82	74	40.91	32.36	9.03	30.12	400	349	P	V
		5357.24	43.81	-10.19	54	32.55	32.37	9.01	30.12	400	349	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. 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	60.5	-7.7	68.2	68.62	39.9	13.33	61.35	100	0	P	H
		15540	62.7	-11.3	74	70.57	37.9	16.67	62.44	208	308	P	H
		15540	50.92	-3.08	54	58.79	37.9	16.67	62.44	208	308	A	H
		10360	57.89	-10.31	68.2	66.01	39.9	13.33	61.35	100	0	P	V
		15540	58.04	-15.96	74	65.91	37.9	16.67	62.44	210	309	P	V
		15540	46.65	-7.35	54	54.52	37.9	16.67	62.44	210	309	A	V
802.11a CH 44 5220MHz		10440	57.4	-10.8	68.2	65.49	40.02	13.38	61.49	100	0	P	H
		15660	64.04	-9.96	74	71.51	37.9	16.87	62.24	240	307	P	H
		15660	53.2	-0.8	54	60.67	37.9	16.87	62.24	240	307	A	H
		10440	56.11	-12.09	68.2	64.2	40.02	13.38	61.49	100	0	P	V
		15660	59.13	-14.87	74	66.6	37.9	16.87	62.24	198	59	P	V
		15660	48.74	-5.26	54	56.21	37.9	16.87	62.24	198	59	A	V
802.11a CH 48 5240MHz		10480	55.55	-12.65	68.2	63.64	40.07	13.4	61.56	100	0	P	H
		15720	63.96	-10.04	74	71.26	37.9	16.95	62.15	251	307	P	H
		15720	53.39	-0.61	54	60.69	37.9	16.95	62.15	251	307	A	H
		10480	54.84	-13.36	68.2	62.93	40.07	13.4	61.56	100	0	P	V
		15720	59.23	-14.77	74	66.53	37.9	16.95	62.15	202	59	P	V
		15720	48.55	-5.45	54	55.85	37.9	16.95	62.15	202	59	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 (Band Edge @ 3m)**

WIFI Ant. 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 )
<b>802.11n HT20 CH 36 5180MHz</b>		5148.2	66.79	-7.21	74	55.64	32.62	8.63	30.1	100	290	P	H
		5149.76	52.78	-1.22	54	41.63	32.62	8.63	30.1	100	290	A	H
	*	5180	112.63	-	-	101.5	32.58	8.65	30.1	100	290	P	H
	*	5180	105.51	-	-	94.38	32.58	8.65	30.1	100	290	A	H
		5149.76	59.58	-14.42	74	48.43	32.62	8.63	30.1	347	354	P	V
		5150	49.55	-4.45	54	38.39	32.62	8.64	30.1	347	354	A	V
	*	5180	110.21	-	-	99.08	32.58	8.65	30.1	347	354	P	V
	*	5180	103	-	-	91.87	32.58	8.65	30.1	347	354	A	V
<b>802.11n HT20 CH 44 5220MHz</b>		5148.72	54.75	-19.25	74	43.6	32.62	8.63	30.1	100	285	P	H
		5149.76	45.81	-8.19	54	34.66	32.62	8.63	30.1	100	285	A	H
	*	5220	112.88	-	-	101.75	32.54	8.7	30.11	100	285	P	H
	*	5220	105.73	-	-	94.6	32.54	8.7	30.11	100	285	A	H
		5354.44	52.67	-21.33	74	41.41	32.37	9.01	30.12	100	285	P	H
		5351.36	44.19	-9.81	54	32.93	32.38	9	30.12	100	285	A	H
		5089.18	52.94	-21.06	74	41.74	32.69	8.6	30.09	400	348	P	V
		5145.34	44.6	-9.4	54	33.44	32.63	8.63	30.1	400	348	A	V
	*	5220	111.74	-	-	100.61	32.54	8.7	30.11	400	348	P	V
	*	5220	103.73	-	-	92.6	32.54	8.7	30.11	400	348	A	V
		5356.12	51.8	-22.2	74	40.54	32.37	9.01	30.12	400	348	P	V
	5355.28	43.02	-10.98	54	31.76	32.37	9.01	30.12	400	348	A	V	



<b>802.11n</b> <b>HT20</b> <b>CH 48</b> <b>5240MHz</b>		5148.98	54.46	-19.54	74	43.31	32.62	8.63	30.1	100	286	P	H
		5146.9	46.36	-7.64	54	35.21	32.62	8.63	30.1	100	286	A	H
	*	5240	113.3	-	-	102.15	32.51	8.75	30.11	100	286	P	H
	*	5240	106.17	-	-	95.02	32.51	8.75	30.11	100	286	A	H
		5351.92	53.33	-20.67	74	42.07	32.38	9	30.12	100	286	P	H
		5351.36	45.71	-8.29	54	34.45	32.38	9	30.12	100	286	A	H
		5142.22	52.87	-21.13	74	41.71	32.63	8.63	30.1	400	360	P	V
		5140.4	44.36	-9.64	54	33.2	32.63	8.63	30.1	400	360	A	V
	*	5240	110.56	-	-	99.41	32.51	8.75	30.11	400	360	P	V
	*	5240	103.39	-	-	92.24	32.51	8.75	30.11	400	360	A	V
		5403.44	51.86	-22.14	74	40.56	32.32	9.11	30.13	400	360	P	V
		5374.04	43.35	-10.65	54	32.08	32.35	9.05	30.13	400	360	A	V
<b>Remark</b>	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. 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)
802.11n HT20 CH 36 5180MHz		10360	60.93	-7.27	68.2	69.05	39.9	12.87	61.35	100	0	P	H
		15540	62.02	-11.98	74	69.89	37.9	16.06	62.44	220	308	P	H
		15540	49.74	-4.26	54	57.61	37.9	16.06	62.44	220	308	A	H
		10360	57.52	-10.68	68.2	65.64	39.9	12.87	61.35	100	0	P	V
		15540	57.44	-16.56	74	65.31	37.9	16.06	62.44	204	310	P	V
		15540	45.39	-8.61	54	53.26	37.9	16.06	62.44	204	310	A	V
802.11n HT20 CH 44 5220MHz		10440	57.89	-10.31	68.2	65.98	40.02	13.38	61.49	100	0	P	H
		15660	62.98	-11.02	74	70.45	37.9	16.87	62.24	217	311	P	H
		15660	50.82	-3.18	54	58.29	37.9	16.87	62.24	217	311	A	H
		10440	56.3	-11.9	68.2	64.39	40.02	13.38	61.49	100	0	P	V
		15660	58.4	-15.6	74	65.87	37.9	16.87	62.24	201	59	P	V
		15660	46.57	-7.43	54	54.04	37.9	16.87	62.24	201	59	A	V
802.11n HT20 CH 48 5240MHz		10480	56.89	-11.31	68.2	64.98	40.07	13.4	61.56	100	0	P	H
		15720	63.31	-10.69	74	70.61	37.9	16.95	62.15	208	313	P	H
		15720	50.74	-3.26	54	58.04	37.9	16.95	62.15	208	313	A	H
		10480	55.69	-12.51	68.2	63.78	40.07	13.4	61.56	100	0	P	V
		15720	58.15	-15.85	74	65.45	37.9	16.95	62.15	200	58	P	V
		15720	46.15	-7.85	54	53.45	37.9	16.95	62.15	200	58	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT40 CH 38 5190MHz		5150	67.37	-6.63	74	56.21	32.62	8.64	30.1	100	291	P	H
		5150	52.39	-1.61	54	41.23	32.62	8.64	30.1	100	291	A	H
	*	5190	105.44	-	-	94.32	32.57	8.65	30.1	100	291	P	H
	*	5190	98.94	-	-	87.82	32.57	8.65	30.1	100	291	A	H
		5370.68	52.34	-21.66	74	41.06	32.36	9.04	30.12	100	291	P	H
		5352.76	44.71	-9.29	54	33.45	32.38	9	30.12	100	291	A	H
		5149.76	62.92	-11.08	74	51.77	32.62	8.63	30.1	386	360	P	V
		5149.76	48.38	-5.62	54	37.23	32.62	8.63	30.1	386	360	A	V
	*	5190	103.06	-	-	91.94	32.57	8.65	30.1	386	360	P	V
	*	5190	95.96	-	-	84.84	32.57	8.65	30.1	386	360	A	V
		5350.24	51.1	-22.9	74	39.84	32.38	9	30.12	386	360	P	V
		5359.2	43.22	-10.78	54	31.95	32.37	9.02	30.12	386	360	A	V
802.11n HT40 CH 46 5230MHz		5145.86	58.64	-15.36	74	47.49	32.62	8.63	30.1	100	290	P	H
		5149.76	48.19	-5.81	54	37.04	32.62	8.63	30.1	100	290	A	H
	*	5230	109.85	-	-	98.71	32.52	8.73	30.11	100	290	P	H
	*	5230	102.53	-	-	91.39	32.52	8.73	30.11	100	290	A	H
		5351.64	53	-21	74	41.74	32.38	9	30.12	100	290	P	H
		5352.48	45.16	-8.84	54	33.9	32.38	9	30.12	100	290	A	H
		5146.12	55.69	-18.31	74	44.54	32.62	8.63	30.1	359	359	P	V
		5148.98	45.37	-8.63	54	34.22	32.62	8.63	30.1	359	359	A	V
	*	5230	107.91	-	-	96.77	32.52	8.73	30.11	359	359	P	V
	*	5230	100.78	-	-	89.64	32.52	8.73	30.11	359	359	A	V
	5381.88	51.25	-22.75	74	39.97	32.34	9.07	30.13	359	359	P	V	
	5368.16	43.92	-10.08	54	32.64	32.36	9.04	30.12	359	359	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)

Table with 14 columns: WIFI Ant. 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 802.11n HT40 CH 38 (5190MHz) and 802.11n HT40 CH 46 (5230MHz). A Remark section at the bottom states: '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)

Table with 14 columns: WIFI Ant. 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 5149.5, 5145.34, 5210, 5357.8, 5351.92, 5147.68, 5144.56, 5210, 5210, 5404.84, 5388.32.

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

Table with 14 columns: WIFI Ant. 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 10420 and 15630.



Emission below 1GHz

WIFI 802.11a (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.	
2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a LF		86.97	23.62	-16.38	40	40.56	14.4	1.24	32.58	-	-	P	H
		214.95	24.22	-19.28	43.5	38.9	15.97	1.89	32.54	-	-	P	H
		247.89	25.54	-20.46	46	37.19	18.86	2.03	32.54	-	-	P	H
		650	34.59	-11.41	46	37.43	26.55	3.14	32.53	-	-	P	H
		750.1	35.39	-10.61	46	36.3	28.13	3.32	32.36	-	-	P	H
		872.6	36.8	-9.2	46	35.82	29.13	3.69	31.84	100	0	P	H
		32.43	27.29	-12.71	40	36	23.25	0.69	32.65	-	-	P	V
		149.88	23.22	-20.28	43.5	37.03	17.16	1.59	32.56	-	-	P	V
		250.05	25.56	-20.44	46	37.14	18.91	2.04	32.53	-	-	P	V
		449.8	31.02	-14.98	46	37.71	23.26	2.59	32.54	-	-	P	V
		650	35.18	-10.82	46	38.02	26.55	3.14	32.53	100	0	P	V
		750.1	34.27	-11.73	46	35.18	28.13	3.32	32.36	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**Band 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		5149.5	64.45	-9.55	74	53.3	32.62	8.63	30.1	290	283	P	H
		5150	52.8	-1.2	54	41.64	32.62	8.64	30.1	290	283	A	H
	*	5180	116.19	-	-	105.06	32.58	8.65	30.1	290	283	P	H
	*	5180	109.25	-	-	98.12	32.58	8.65	30.1	290	283	A	H
		5147.16	61.21	-12.79	74	50.06	32.62	8.63	30.1	100	305	P	V
		5147.68	49.21	-4.79	54	38.06	32.62	8.63	30.1	100	305	A	V
	*	5180	112.25	-	-	101.12	32.58	8.65	30.1	100	305	P	V
	*	5180	105.05	-	-	93.92	32.58	8.65	30.1	100	305	A	V
802.11a CH 44 5220MHz		5150	57.2	-16.8	74	46.04	32.62	8.64	30.1	268	286	P	H
		5149.5	47.52	-6.48	54	36.37	32.62	8.63	30.1	268	286	A	H
	*	5220	118.7	-	-	107.57	32.54	8.7	30.11	268	286	P	H
	*	5220	111.56	-	-	100.43	32.54	8.7	30.11	268	286	A	H
		5357.24	53.55	-20.45	74	42.29	32.37	9.01	30.12	268	286	P	H
		5354.44	44.84	-9.16	54	33.58	32.37	9.01	30.12	268	286	A	H
		5143.78	55.1	-18.9	74	43.94	32.63	8.63	30.1	100	308	P	V
		5148.98	45.25	-8.75	54	34.1	32.62	8.63	30.1	100	308	A	V
	*	5220	115	-	-	103.87	32.54	8.7	30.11	100	308	P	V
	*	5220	108.21	-	-	97.08	32.54	8.7	30.11	100	308	A	V
		5363.68	51.23	-22.77	74	39.96	32.36	9.03	30.12	100	308	P	V
		5355	43.15	-10.85	54	31.89	32.37	9.01	30.12	100	308	A	V



<b>802.11a CH 48 5240MHz</b>		5100.36	55.23	-18.77	74	44.03	32.68	8.61	30.09	277	288	P	H
		5147.68	46.68	-7.32	54	35.53	32.62	8.63	30.1	277	288	A	H
	*	5240	118.68	-	-	107.53	32.51	8.75	30.11	277	288	P	H
	*	5240	111.46	-	-	100.31	32.51	8.75	30.11	277	288	A	H
		5353.88	53.16	-20.84	74	41.89	32.38	9.01	30.12	277	288	P	H
		5352.2	45.79	-8.21	54	34.53	32.38	9	30.12	277	288	A	H
		5144.82	53.54	-20.46	74	42.38	32.63	8.63	30.1	100	307	P	V
		5140.14	44.57	-9.43	54	33.41	32.63	8.63	30.1	100	307	A	V
	*	5240	114.8	-	-	103.65	32.51	8.75	30.11	100	307	P	V
	*	5240	107.91	-	-	96.76	32.51	8.75	30.11	100	307	A	V
		5350.8	51.72	-22.28	74	40.46	32.38	9	30.12	100	307	P	V
		5351.36	43.31	-10.69	54	32.05	32.38	9	30.12	100	307	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. 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	59.35	-8.85	68.2	67.47	39.9	13.33	61.35	100	0	P	H
		15540	59.34	-14.66	74	67.21	37.9	16.67	62.44	224	309	P	H
		15540	48.17	-5.83	54	56.04	37.9	16.67	62.44	224	309	A	H
		10360	56.26	-11.94	68.2	64.38	39.9	13.33	61.35	100	0	P	V
		15540	55.91	-18.09	74	63.78	37.9	16.67	62.44	206	310	P	V
		15540	43.82	-10.18	54	51.69	37.9	16.67	62.44	206	310	A	V
802.11a CH 44 5220MHz		10440	57.86	-10.34	68.2	65.95	40.02	13.38	61.49	100	0	P	H
		15660	62.95	-11.05	74	70.42	37.9	16.87	62.24	206	311	P	H
		15660	52.99	-1.01	54	60.46	37.9	16.87	62.24	206	311	A	H
		10440	56.62	-11.58	68.2	64.71	40.02	13.38	61.49	100	0	P	V
		15660	59.08	-14.92	74	66.55	37.9	16.87	62.24	197	59	P	V
		15660	47.99	-6.01	54	55.46	37.9	16.87	62.24	197	59	A	V
802.11a CH 48 5240MHz		10480	53.77	-14.43	68.2	61.86	40.07	13.4	61.56	100	0	P	H
		15720	62.71	-11.29	74	70.01	37.9	16.95	62.15	291	306	P	H
		15720	52.89	-1.11	54	60.19	37.9	16.95	62.15	291	306	A	H
		10480	53.73	-14.47	68.2	61.82	40.07	13.4	61.56	100	0	P	V
		15720	57.71	-16.29	74	65.01	37.9	16.95	62.15	205	58	P	V
		15720	47.41	-6.59	54	54.71	37.9	16.95	62.15	205	58	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 (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 802.11n HT20 CH 36 (5180MHz) and 802.11n HT20 CH 44 (5220MHz).



<b>802.11n</b>  <b>HT20</b>  <b>CH 48</b>  <b>5240MHz</b>		5135.72	55.19	-18.81	74	44.02	32.64	8.63	30.1	279	292	P	H
		5148.2	46.5	-7.5	54	35.35	32.62	8.63	30.1	279	292	A	H
	*	5240	117.69	-	-	106.54	32.51	8.75	30.11	279	292	P	H
	*	5240	110.88	-	-	99.73	32.51	8.75	30.11	279	292	A	H
		5351.08	53.76	-20.24	74	42.5	32.38	9	30.12	279	292	P	H
		5351.36	45.79	-8.21	54	34.53	32.38	9	30.12	279	292	A	H
		5150	52.8	-21.2	74	41.64	32.62	8.64	30.1	100	313	P	V
		5143.52	44.4	-9.6	54	33.24	32.63	8.63	30.1	100	313	A	V
	*	5240	113.1	-	-	101.95	32.51	8.75	30.11	100	313	P	V
	*	5240	106.31	-	-	95.16	32.51	8.75	30.11	100	313	A	V
		5366.2	51.78	-22.22	74	40.51	32.36	9.03	30.12	100	313	P	V
		5352.76	42.96	-11.04	54	31.7	32.38	9	30.12	100	313	A	V
<b>Remark</b>	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. 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)
802.11n HT20 CH 36 5180MHz		10360	58.86	-9.34	68.2	66.98	39.9	13.33	61.35	100	0	P	H
		15540	59.85	-14.15	74	67.72	37.9	16.67	62.44	223	311	P	H
		15540	47.88	-6.12	54	55.75	37.9	16.67	62.44	223	311	A	H
		10360	57.64	-10.56	68.2	65.76	39.9	13.33	61.35	100	0	P	V
		15540	55.39	-18.61	74	63.26	37.9	16.67	62.44	200	59	P	V
		15540	42.52	-11.48	54	50.39	37.9	16.67	62.44	200	59	A	V
802.11n HT20 CH 44 5220MHz		10440	56.64	-11.56	68.2	64.73	40.02	13.38	61.49	100	0	P	H
		15660	63.98	-10.02	74	71.45	37.9	16.87	62.24	251	308	P	H
		15660	52.32	-1.68	54	59.79	37.9	16.87	62.24	251	308	A	H
		10440	54.9	-13.3	68.2	62.99	40.02	13.38	61.49	100	0	P	V
		15660	58.88	-15.12	74	66.35	37.9	16.87	62.24	200	59	P	V
		15660	47.03	-6.97	54	54.5	37.9	16.87	62.24	200	59	A	V
802.11n HT20 CH 48 5240MHz		10480	53.75	-14.45	68.2	61.84	40.07	13.4	61.56	100	0	P	H
		15720	63.32	-10.68	74	70.62	37.9	16.95	62.15	294	306	P	H
		15720	52.38	-1.62	54	59.68	37.9	16.95	62.15	294	306	A	H
		10480	53.56	-14.64	68.2	61.65	40.07	13.4	61.56	100	0	P	V
		15720	58.91	-15.09	74	66.21	37.9	16.95	62.15	201	59	P	V
		15720	46.98	-7.02	54	54.28	37.9	16.95	62.15	201	59	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	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		5150	67.59	-6.41	74	56.43	32.62	8.64	30.1	271	286	P	H
		5150	53.36	-0.64	54	42.2	32.62	8.64	30.1	271	286	A	H
	*	5190	106.71	-	-	95.59	32.57	8.65	30.1	271	286	P	H
	*	5190	99.96	-	-	88.84	32.57	8.65	30.1	271	286	A	H
		5412.96	50.93	-23.07	74	39.65	32.3	9.11	30.13	271	286	P	H
		5374.04	42.94	-11.06	54	31.67	32.35	9.05	30.13	271	286	A	H
		5148.46	60.58	-13.42	74	49.43	32.62	8.63	30.1	100	307	P	V
		5148.98	47.6	-6.4	54	36.45	32.62	8.63	30.1	100	307	A	V
	*	5190	102.2	-	-	91.08	32.57	8.65	30.1	100	307	P	V
	*	5190	95.77	-	-	84.65	32.57	8.65	30.1	100	307	A	V
		5390.28	50.24	-23.76	74	38.95	32.33	9.09	30.13	100	307	P	V
		5377.68	42.6	-11.4	54	31.32	32.35	9.06	30.13	100	307	A	V
802.11n HT40 CH 46 5230MHz		5146.64	61.92	-12.08	74	50.77	32.62	8.63	30.1	273	292	P	H
		5148.72	52	-2	54	40.85	32.62	8.63	30.1	273	292	A	H
	*	5230	113.85	-	-	102.71	32.52	8.73	30.11	273	292	P	H
	*	5230	107.31	-	-	96.17	32.52	8.73	30.11	273	292	A	H
		5358.92	55.65	-18.35	74	44.38	32.37	9.02	30.12	273	292	P	H
		5350	45.96	-8.04	54	34.7	32.38	9	30.12	273	292	A	H
		5147.42	57.71	-16.29	74	46.56	32.62	8.63	30.1	100	310	P	V
		5150	49.38	-4.62	54	38.22	32.62	8.64	30.1	100	310	A	V
	*	5230	110.18	-	-	99.04	32.52	8.73	30.11	100	310	P	V
	*	5230	103.37	-	-	92.23	32.52	8.73	30.11	100	310	A	V
	5350	52.3	-21.7	74	41.04	32.38	9	30.12	100	310	P	V	
	5373.2	43.91	-10.09	54	32.63	32.35	9.05	30.12	100	310	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)

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 802.11n HT40 CH 38 (5190MHz) and 802.11n HT40 CH 46 (5230MHz).

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. 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)
802.11ac VHT80 CH 42 5210MHz		5134.94	61.13	-12.87	74	49.96	32.64	8.63	30.1	267	292	P	H
		5147.42	53.44	-0.56	54	42.29	32.62	8.63	30.1	267	292	A	H
	*	5210	102.71	-	-	91.59	32.55	8.68	30.11	267	292	P	H
	*	5210	95.96	-	-	84.84	32.55	8.68	30.11	267	292	A	H
		5361.16	51.58	-22.42	74	40.31	32.37	9.02	30.12	267	292	P	H
		5376.84	44.9	-9.1	54	33.62	32.35	9.06	30.13	267	292	A	H
		5129.22	55.05	-18.95	74	43.89	32.64	8.62	30.1	100	308	P	V
		5148.72	49.16	-4.84	54	38.01	32.62	8.63	30.1	100	308	A	V
	*	5210	99.13	-	-	88.01	32.55	8.68	30.11	100	308	P	V
	*	5210	92.2	-	-	81.08	32.55	8.68	30.11	100	308	A	V
		5353.6	51.19	-22.81	74	39.92	32.38	9.01	30.12	100	308	P	V
		5383.56	44.24	-9.76	54	32.96	32.34	9.07	30.13	100	308	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. 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)
802.11ac VHT80 CH 42 5210MHz		10420	45.56	-22.64	68.2	53.67	39.99	13.36	61.46	100	0	P	H
		15630	44.85	-29.15	74	52.42	37.9	16.82	62.29	100	0	P	H
		10420	46.29	-21.91	68.2	54.4	39.99	13.36	61.46	100	0	P	V
		15630	45	-29	74	52.57	37.9	16.82	62.29	100	0	P	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)**

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)
<b>802.11ac VHT80 LF</b>		87.51	23.83	-16.17	40	40.7	14.47	1.14	32.58	-	-	P	H
		213.6	25.4	-18.1	43.5	40.16	15.89	1.75	32.54	-	-	P	H
		249.51	25.99	-20.01	46	37.6	18.89	1.89	32.54	-	-	P	H
		349.7	32.61	-13.39	46	42.13	20.72	2.21	32.53	-	-	P	H
		750.1	35.02	-10.98	46	35.93	28.13	3.19	32.36	-	-	P	H
		872.6	36.63	-9.37	46	35.65	29.13	3.48	31.84	100	0	P	H
		31.62	26.84	-13.16	40	35.19	23.61	0.69	32.65	-	-	P	V
		149.88	23.72	-19.78	43.5	37.53	17.16	1.46	32.56	-	-	P	V
		250.05	24.81	-21.19	46	36.39	18.91	1.89	32.53	-	-	P	V
		449.8	30.93	-15.07	46	37.62	23.26	2.5	32.54	-	-	P	V
		650	35.49	-10.51	46	38.33	26.55	2.98	32.53	100	0	P	V
		872.6	32.84	-13.16	46	31.86	29.13	3.48	31.84	-	-	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against limit line.												



<TXBF Mode>

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (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 )
802.11ac VHT20 CH 36 5180MHz		5147.94	62.02	-11.98	74	50.87	32.62	8.63	30.1	289	284	P	H
		5150	52.14	-1.86	54	40.98	32.62	8.64	30.1	289	284	A	H
	*	5180	115.11	-	-	103.98	32.58	8.65	30.1	289	284	P	H
	*	5180	107.93	-	-	96.8	32.58	8.65	30.1	289	284	A	H
		5145.86	55.43	-18.57	74	44.28	32.62	8.63	30.1	100	311	P	V
		5148.72	47.68	-6.32	54	36.53	32.62	8.63	30.1	100	311	A	V
	*	5180	112.18	-	-	101.05	32.58	8.65	30.1	100	311	P	V
*	5180	104.61	-	-	93.48	32.58	8.65	30.1	100	311	A	V	
802.11ac VHT20 CH 44 5220MHz		5148.2	55.88	-18.12	74	44.73	32.62	8.63	30.1	271	276	P	H
		5146.64	46.94	-7.06	54	35.79	32.62	8.63	30.1	271	276	A	H
	*	5220	117.05	-	-	105.92	32.54	8.7	30.11	271	276	P	H
	*	5220	110.39	-	-	99.26	32.54	8.7	30.11	271	276	A	H
		5356.4	52.37	-21.63	74	41.11	32.37	9.01	30.12	271	276	P	H
		5355.28	43.99	-10.01	54	32.73	32.37	9.01	30.12	271	276	A	H
		5148.72	53.47	-20.53	74	42.32	32.62	8.63	30.1	100	307	P	V
		5149.24	44.31	-9.69	54	33.16	32.62	8.63	30.1	100	307	A	V
	*	5220	114.37	-	-	103.24	32.54	8.7	30.11	100	307	P	V
	*	5220	107.54	-	-	96.41	32.54	8.7	30.11	100	307	A	V
	5350	51.93	-22.07	74	40.67	32.38	9	30.12	100	307	P	V	
	5353.6	42.81	-11.19	54	31.54	32.38	9.01	30.12	100	307	A	V	



<b>802.11ac</b>  <b>VHT20</b>  <b>CH 48</b>  <b>5240MHz</b>		5148.98	55.15	-18.85	74	44	32.62	8.63	30.1	279	291	P	H
		5128.7	46.21	-7.79	54	35.04	32.65	8.62	30.1	279	291	A	H
	*	5240	117.56	-	-	106.41	32.51	8.75	30.11	279	291	P	H
	*	5240	110.6	-	-	99.45	32.51	8.75	30.11	279	291	A	H
		5377.12	54.19	-19.81	74	42.91	32.35	9.06	30.13	279	291	P	H
		5351.36	45.07	-8.93	54	33.81	32.38	9	30.12	279	291	A	H
		5106.6	54.12	-19.88	74	42.93	32.67	8.61	30.09	100	218	P	V
		5128.44	43.96	-10.04	54	32.79	32.65	8.62	30.1	100	218	A	V
	*	5240	113.71	-	-	102.56	32.51	8.75	30.11	100	218	P	V
	*	5240	106.83	-	-	95.68	32.51	8.75	30.11	100	218	A	V
		5406.8	50.98	-23.02	74	39.69	32.31	9.11	30.13	100	218	P	V
	5351.92	42.49	-11.51	54	31.23	32.38	9	30.12	100	218	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 36 5180MHz		10360	66.66	-1.54	68.2	74.78	39.9	13.33	61.35	237	296	P	H
		15540	59.05	-14.95	74	66.92	37.9	16.67	62.44	222	308	P	H
		15540	46.32	-7.68	54	54.19	37.9	16.67	62.44	222	308	A	H
		10360	64.02	-4.18	68.2	72.14	39.9	13.33	61.35	100	0	P	V
		15540	49.98	-24.02	74	57.85	37.9	16.67	62.44	100	0	P	V
802.11ac VHT20 CH 44 5220MHz		10440	61.39	-6.81	68.2	69.48	40.02	13.38	61.49	100	0	P	H
		15660	60.57	-13.43	74	68.04	37.9	16.87	62.24	296	305	P	H
		15660	49.89	-4.11	54	57.36	37.9	16.87	62.24	296	305	A	H
		10440	61.82	-6.38	68.2	69.91	40.02	13.38	61.49	100	0	P	V
		15660	54.67	-19.33	74	62.14	37.9	16.87	62.24	100	38	P	V
		15660	43.97	-10.03	54	51.44	37.9	16.87	62.24	100	38	A	V
802.11ac VHT20 CH 48 5240MHz		10480	62.36	-5.84	68.2	70.45	40.07	13.4	61.56	100	0	P	H
		15720	61.41	-12.59	74	68.71	37.9	16.95	62.15	219	306	P	H
		15720	50.75	-3.25	54	58.05	37.9	16.95	62.15	219	306	A	H
		10480	58.82	-9.38	68.2	66.91	40.07	13.4	61.56	100	0	P	V
		15720	55.86	-18.14	74	63.16	37.9	16.95	62.15	100	283	P	V
		15720	44.96	-9.04	54	52.26	37.9	16.95	62.15	100	283	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 VHT40 (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)
802.11ac VHT40 CH 38 5190MHz		5150	59.1	-14.9	74	47.94	32.62	8.64	30.1	290	277	P	H
		5150	50.97	-3.03	54	39.81	32.62	8.64	30.1	290	277	A	H
	*	5190	106.74	-	-	95.62	32.57	8.65	30.1	290	277	P	H
	*	5190	99.66	-	-	88.54	32.57	8.65	30.1	290	277	A	H
		5388.04	50.87	-23.13	74	39.59	32.33	9.08	30.13	290	277	P	H
		5356.96	43	-11	54	31.74	32.37	9.01	30.12	290	277	A	H
		5148.46	54.14	-19.86	74	42.99	32.62	8.63	30.1	100	307	P	V
		5149.5	46.36	-7.64	54	35.21	32.62	8.63	30.1	100	307	A	V
	*	5190	102.82	-	-	91.7	32.57	8.65	30.1	100	307	P	V
	*	5190	95.95	-	-	84.83	32.57	8.65	30.1	100	307	A	V
		5377.4	50.35	-23.65	74	39.07	32.35	9.06	30.13	100	307	P	V
		5356.96	42.27	-11.73	54	31.01	32.37	9.01	30.12	100	307	A	V
802.11ac VHT40 CH 46 5230MHz		5146.64	60.86	-13.14	74	49.71	32.62	8.63	30.1	300	284	P	H
		5148.98	52.29	-1.71	54	41.14	32.62	8.63	30.1	300	284	A	H
	*	5230	113.54	-	-	102.4	32.52	8.73	30.11	300	284	P	H
	*	5230	106.92	-	-	95.78	32.52	8.73	30.11	300	284	A	H
		5352.2	53.04	-20.96	74	41.78	32.38	9	30.12	300	284	P	H
		5353.04	44.81	-9.19	54	33.55	32.38	9	30.12	300	284	A	H
		5150	56.34	-17.66	74	45.18	32.62	8.64	30.1	100	307	P	V
		5149.76	48.84	-5.16	54	37.69	32.62	8.63	30.1	100	307	A	V
	*	5230	111.03	-	-	99.89	32.52	8.73	30.11	100	307	P	V
	*	5230	104.21	-	-	93.07	32.52	8.73	30.11	100	307	A	V
	5396.16	51.95	-22.05	74	40.66	32.32	9.1	30.13	100	307	P	V	
	5350	44.1	-9.9	54	32.84	32.38	9	30.12	100	307	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 VHT40 (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 802.11ac VHT40 CH 38 (5190MHz) and 802.11ac VHT40 CH 46 (5230MHz).

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. 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 )
802.11ac VHT80 CH 42 5210MHz		5149.24	58.31	-15.69	74	47.16	32.62	8.63	30.1	289	277	P	H
		5144.56	52.82	-1.18	54	41.66	32.63	8.63	30.1	289	277	A	H
	*	5210	101.11	-	-	89.99	32.55	8.68	30.11	289	277	P	H
	*	5210	95.17	-	-	84.05	32.55	8.68	30.11	289	277	A	H
		5438.16	50.61	-23.39	74	39.35	32.27	9.12	30.13	289	277	P	H
		5451.04	43.75	-10.25	54	32.51	32.26	9.12	30.14	289	277	A	H
		5146.12	53.87	-20.13	74	42.72	32.62	8.63	30.1	100	308	P	V
		5145.08	47.77	-6.23	54	36.61	32.63	8.63	30.1	100	308	A	V
	*	5210	99.17	-	-	88.05	32.55	8.68	30.11	100	308	P	V
	*	5210	92.14	-	-	81.02	32.55	8.68	30.11	100	308	A	V
		5380.2	50.76	-23.24	74	39.48	32.34	9.07	30.13	100	308	P	V
	5423.88	43.99	-10.01	54	32.72	32.29	9.11	30.13	100	308	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. 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 )
802.11ac VHT80 CH 42 5210MHz		10420	47.25	-20.95	68.2	55.36	39.99	13.36	61.46	100	0	P	H
		15630	45.89	-28.11	74	53.46	37.9	16.82	62.29	100	0	P	H
		10420	46.89	-21.31	68.2	55	39.99	13.36	61.46	100	0	P	V
		15630	46.01	-27.99	74	53.58	37.9	16.82	62.29	100	0	P	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)

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 )
802.11ac VHT80 LF		86.7	24.49	-15.51	40	41.47	14.36	1.14	32.58	-	-	P	H
		179.04	40.39	-3.11	43.5	55.98	15.15	1.61	32.55	100	0	P	H
		239.79	39.65	-6.35	46	51.56	18.65	1.85	32.54	-	-	P	H
		300	39.55	-6.45	46	50.46	19.4	2.07	32.53	-	-	P	H
		700.4	34.52	-11.48	46	36.9	26.86	3.13	32.49	-	-	P	H
		724.9	37	-9	46	38.43	27.71	3.16	32.42	-	-	P	H
		58.08	36.06	-3.94	40	55.55	12.15	0.92	32.61	100	0	P	V
		167.97	30.12	-13.38	43.5	45.02	15.91	1.55	32.55	-	-	P	V
		240.06	35.87	-10.13	46	47.76	18.67	1.85	32.54	-	-	P	V
		416.2	30.87	-15.13	46	38.22	22.65	2.45	32.53	-	-	P	V
		764.1	31.52	-14.48	46	32.25	28.22	3.23	32.32	-	-	P	V
	896.4	38.26	-7.74	46	36.89	29.37	3.51	31.72	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**Note symbol**

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



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		( 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. Radiated Spurious Emission

Test Engineer :	Watt Tseng, Karl Hou, and Big show Wang	Temperature :	22~25°C
		Relative Humidity :	51~58%

### Note symbol

-L	Low channel location
-R	High channel location



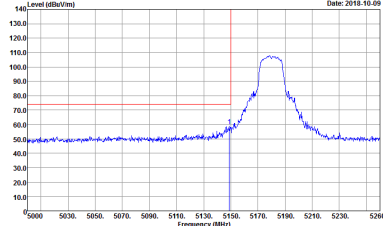
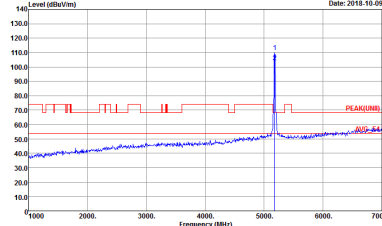
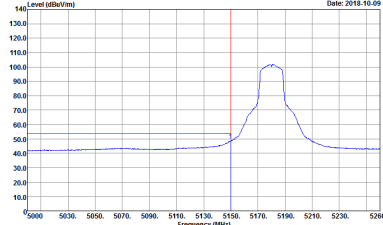
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**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

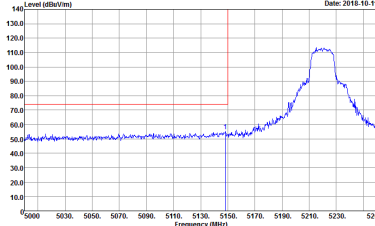
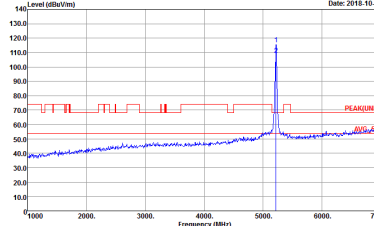
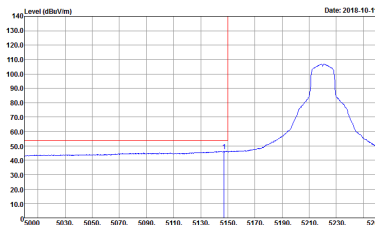
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY            Condition : PEAK(LINII) 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

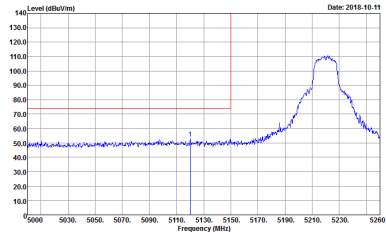
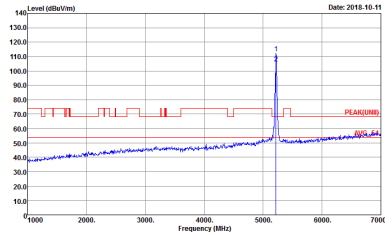
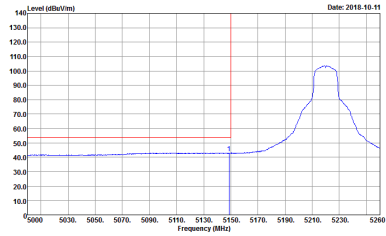


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

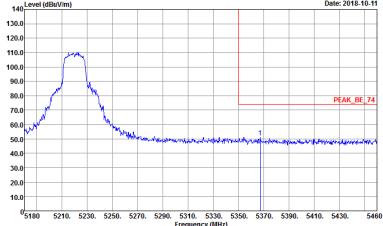
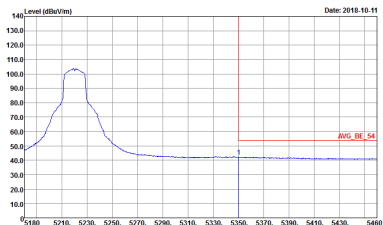


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

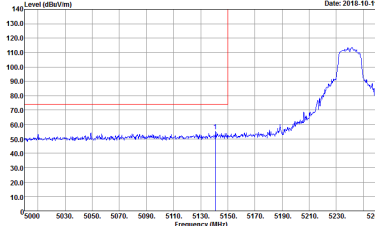
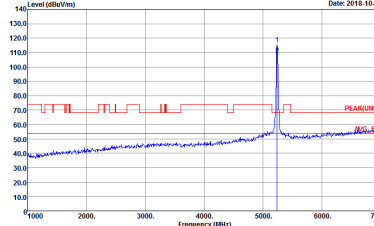
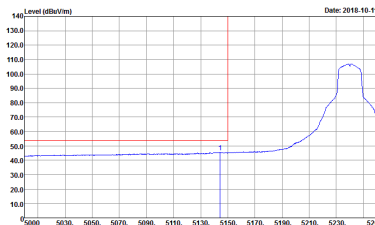


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY            Condition : PEAK(UWB) 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

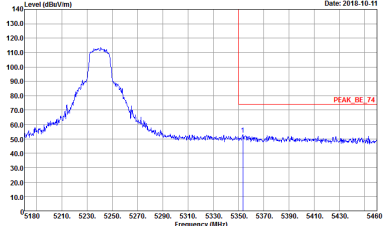
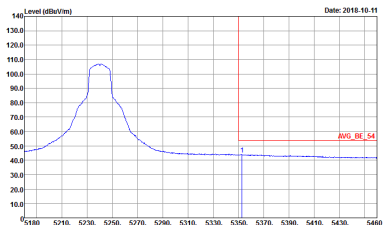


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



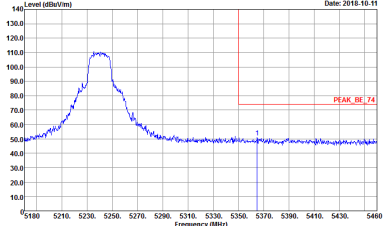
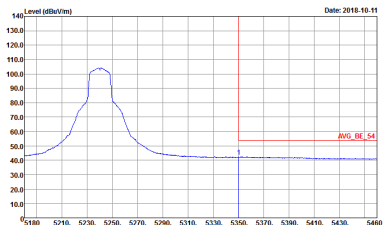
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY            Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>





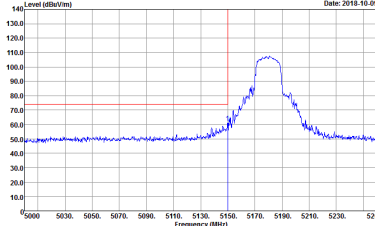
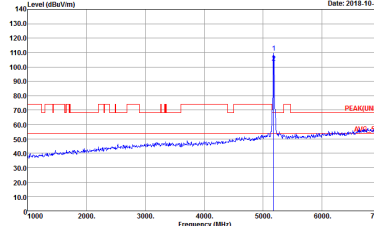
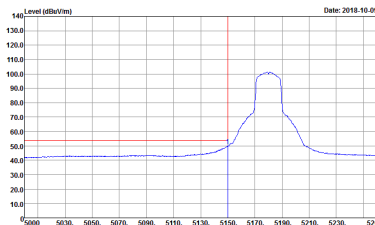
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



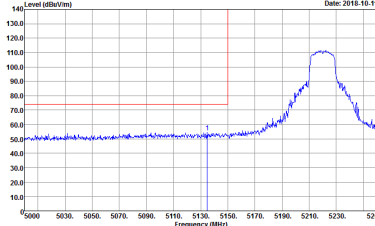
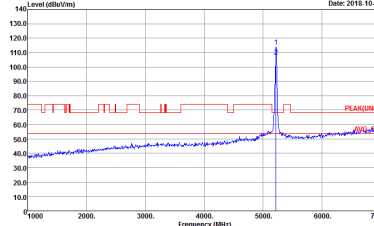
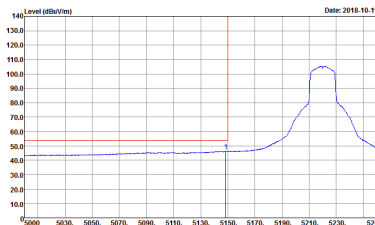
**Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY            Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

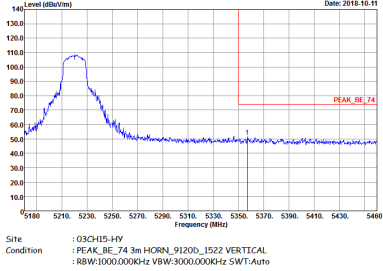
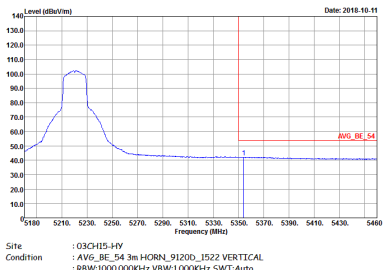


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>

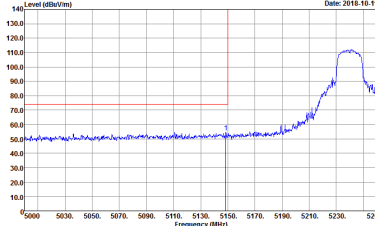
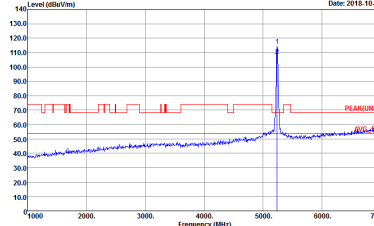
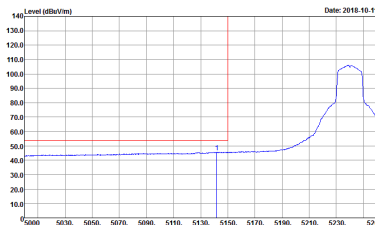


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



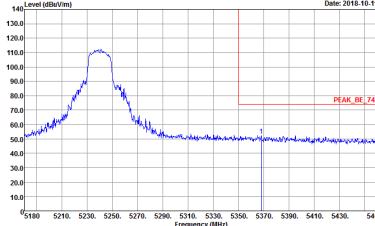
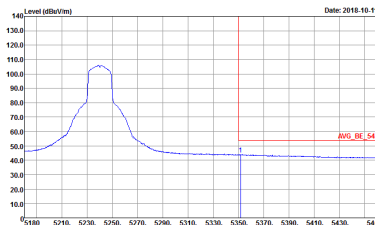
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>		<p>Left blank</p>
<p><b>Avg.</b></p>		<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY            Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

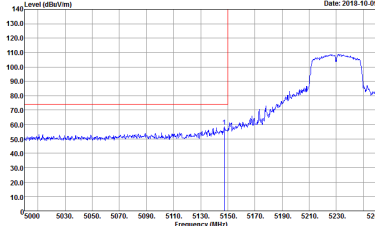
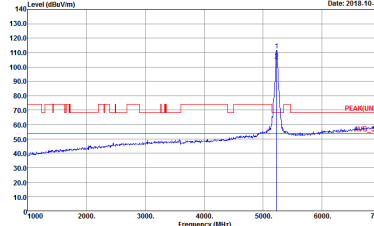
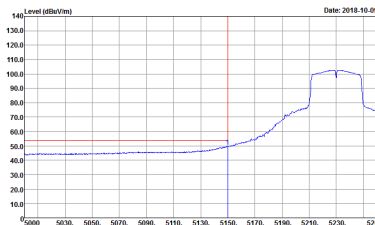


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank



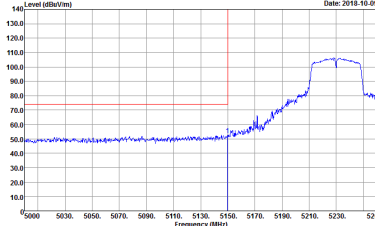
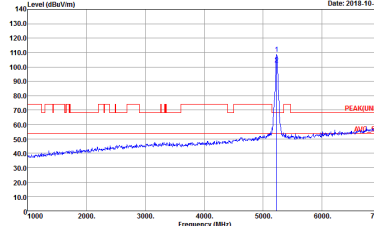
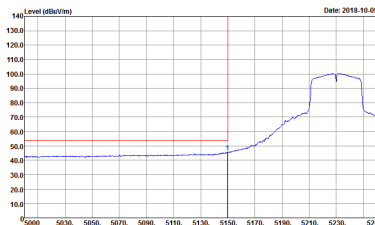
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



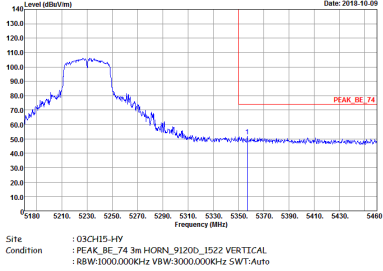
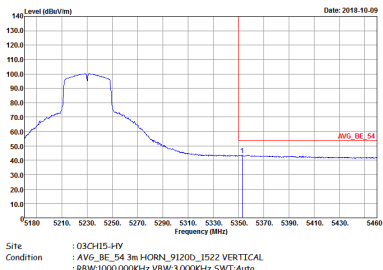


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p>Left blank</p>



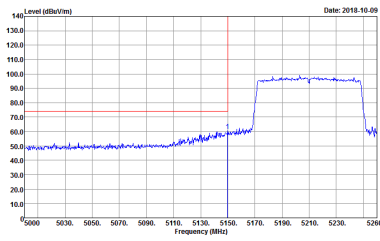
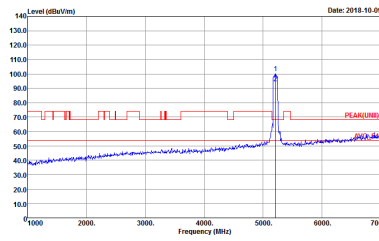
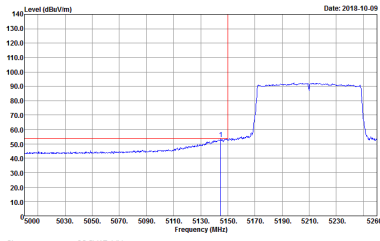
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



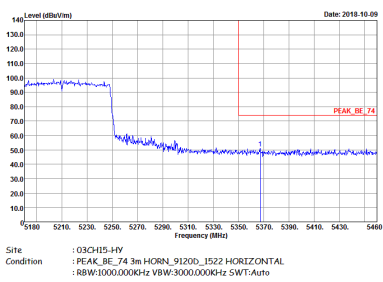
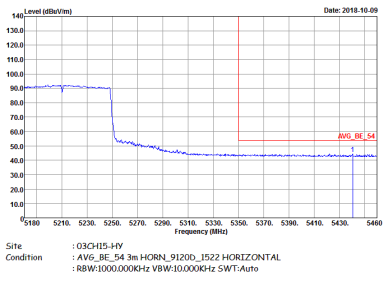
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



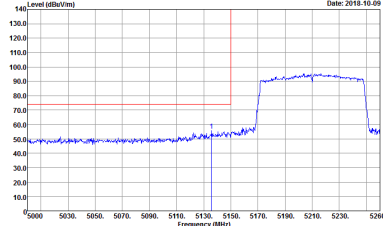
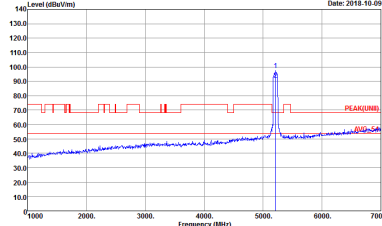
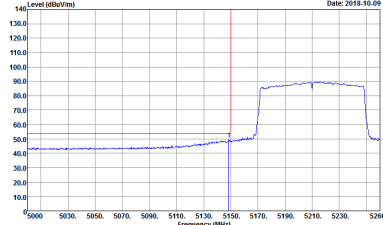
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY            Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>		<p>Left blank</p>
<p><b>Avg.</b></p>		<p>Left blank</p>



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

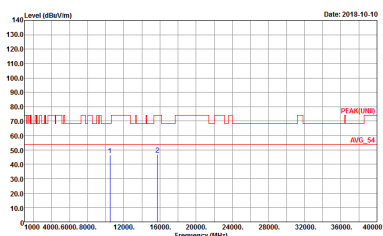
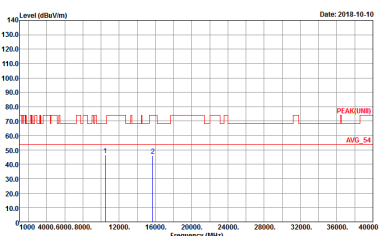
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
<b>Peak</b>	<p>Site : 03CH15-HY            Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL            Detector : Peak</p>	<p>Site : 03CH15-HY            Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL            Detector : Peak</p>





WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak	<p>Site : (3)CH15-44 Condition : PEAK(LINE1) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : (3)CH15-44 Condition : PEAK(LINE1) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	 <p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>



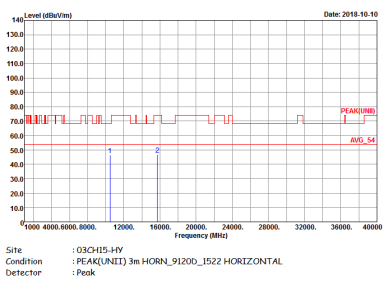
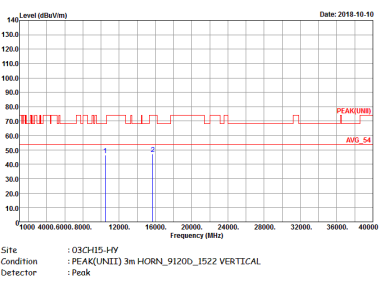
**Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak.	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak.	<p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>



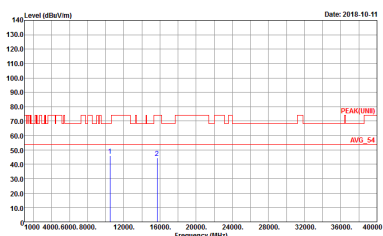
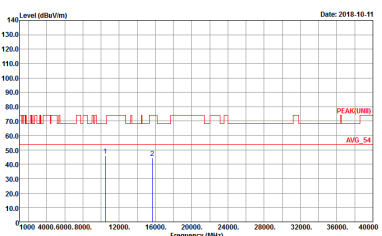
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak		



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
<b>Peak</b>	<p>Site : 03CH15-HY            Condition : PEAK(LIMIT) 3m HORN_91200_1522 HORIZONTAL            Detector : Peak</p>	<p>Site : 03CH15-HY            Condition : PEAK(LIMIT) 3m HORN_91200_1522 VERTICAL            Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	 <p>Site : 03CH15-11Y Condition : PEAK(LINE1) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
<b>Peak</b>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL Detector : Peak</p>





Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

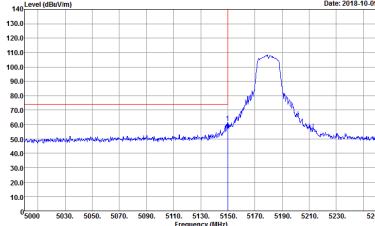
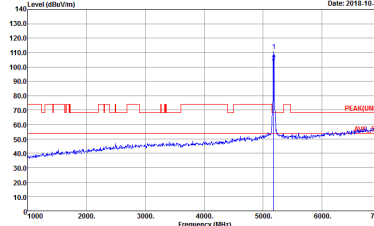
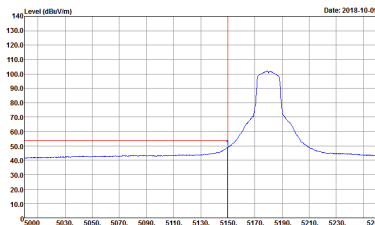
Table with 3 columns: WIFI (5GHz WIFI), ANT (802.11ac VHT80 LF), and 1 (Horizontal/Vertical). It contains two spectral plots: Horizontal and Vertical. Both plots show Level (dBuV/m) vs Frequency (MHz) from 50 to 1000 MHz. The plots include a red line for the limit and a blue line for the measured signal. A 'QP / Peak' label is present on the left side of the table.



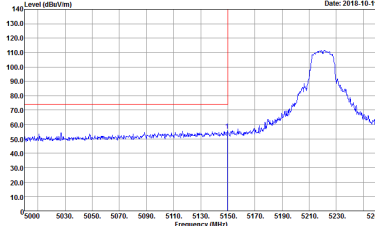
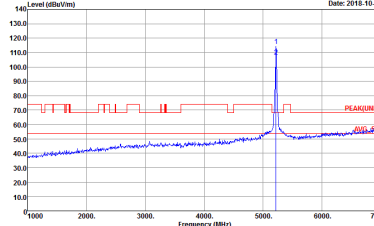
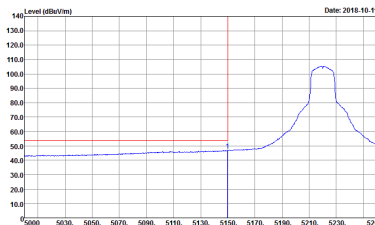
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY            Condition : PEAK(FUNDT) 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

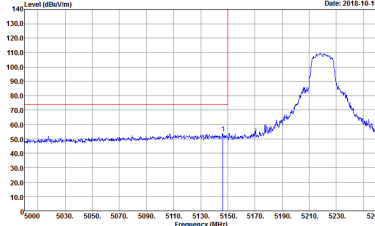
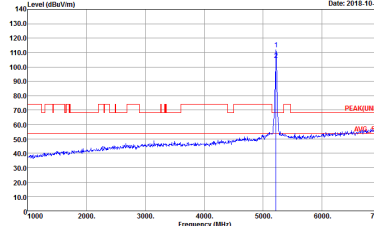
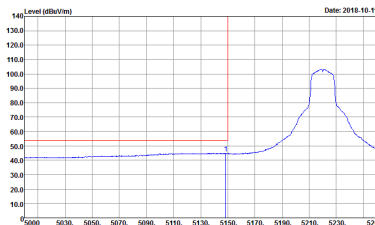


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>

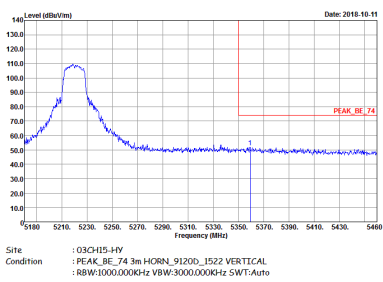
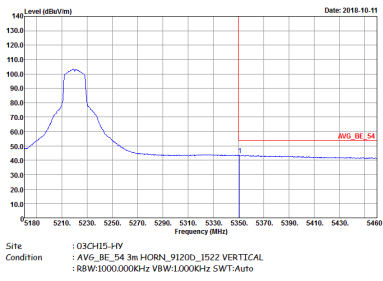


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>

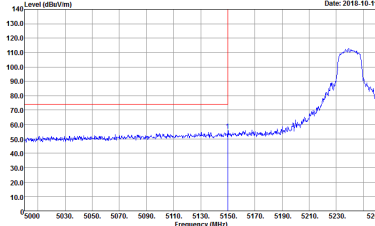
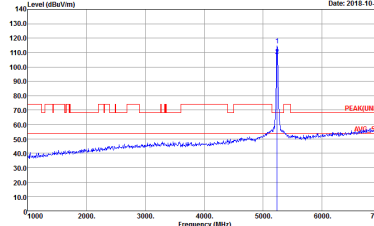
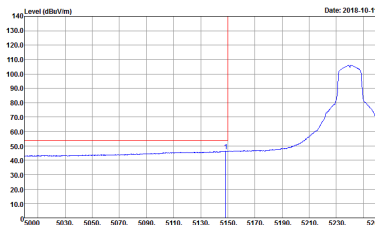


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



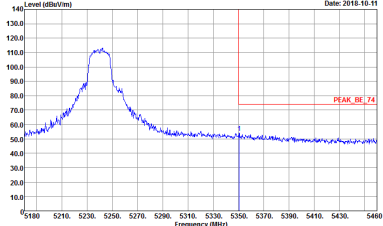
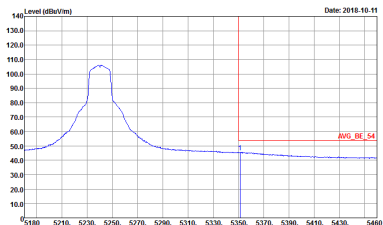
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



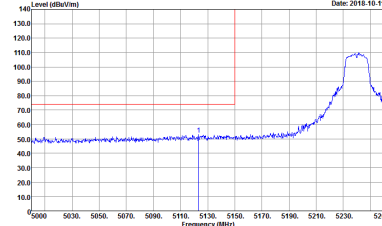
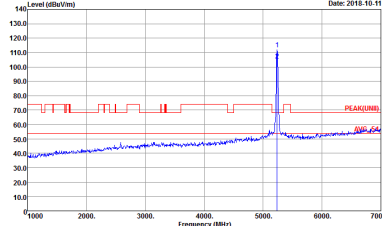
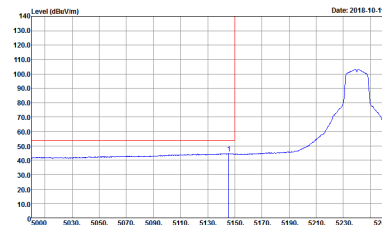
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



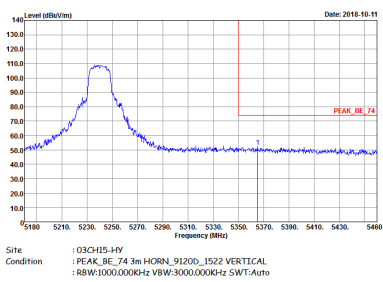
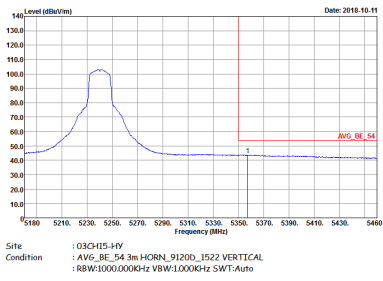


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



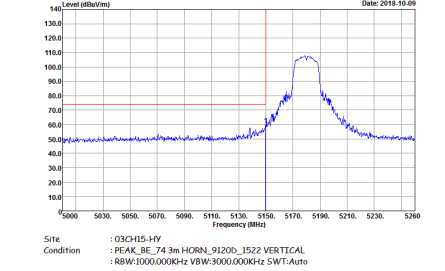
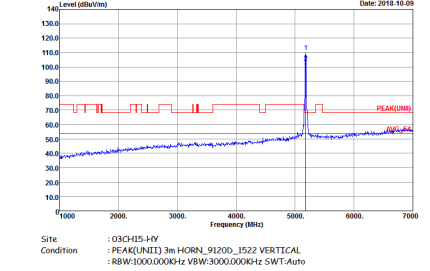
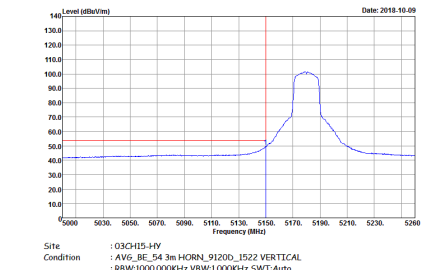
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



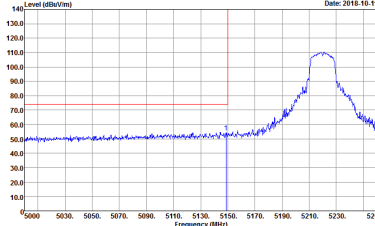
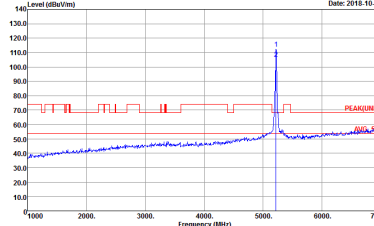
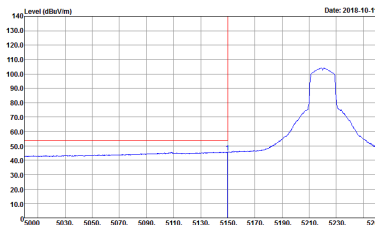
**Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
<p><b>Peak</b></p>		
<p><b>Avg.</b></p>		<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



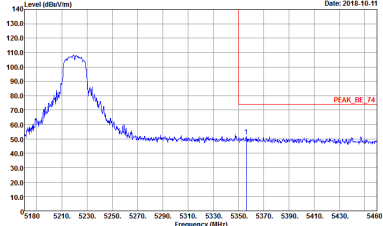
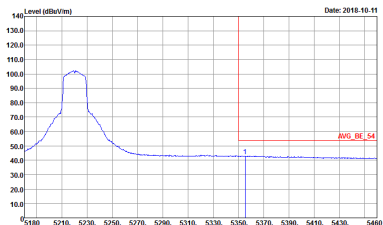
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



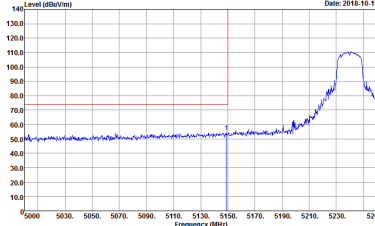
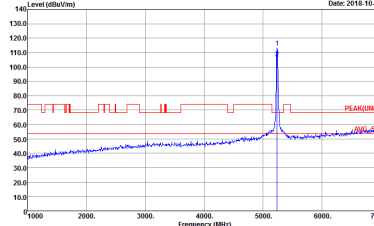
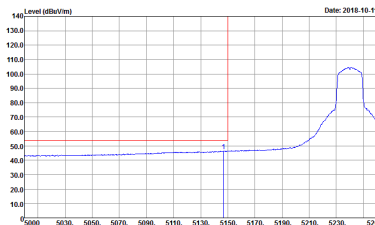
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



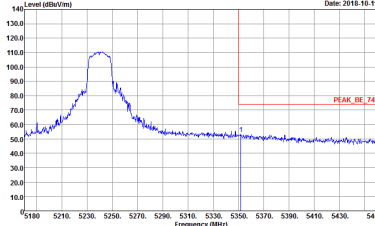
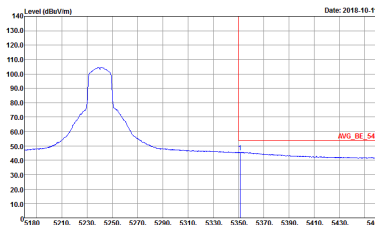


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY            Condition : PEAK(UNITI) 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



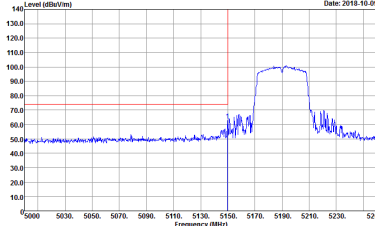
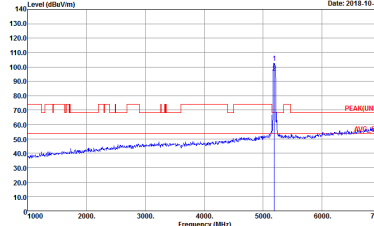
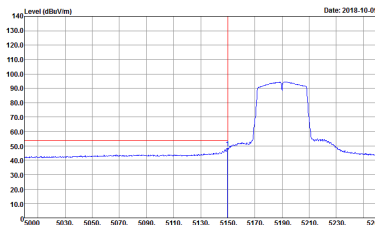
**Band 1 5150~5250MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p>Left blank</p>



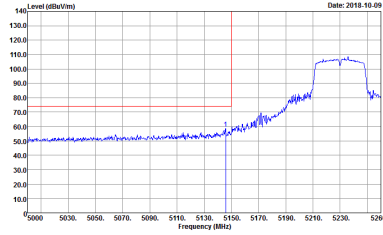
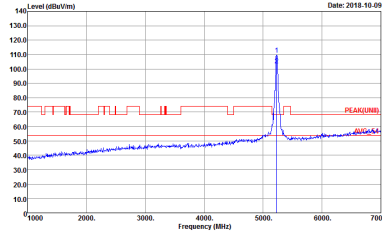
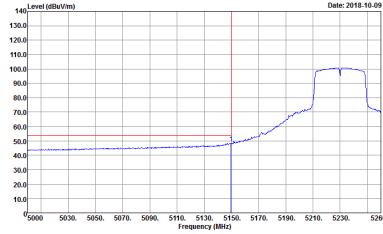
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

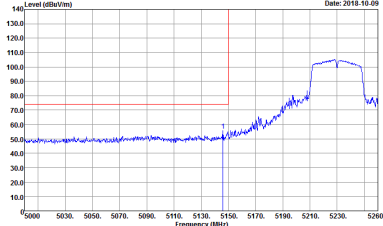
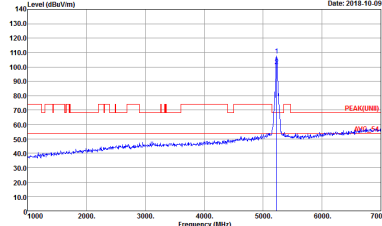
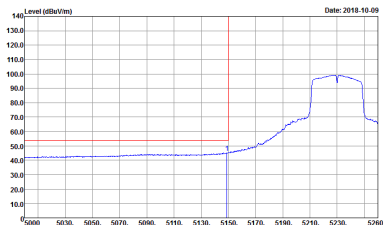


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p><b>Left blank</b></p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH15-HY            Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH15-HY            Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL            : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank