



# FCC RF Test Report

**APPLICANT** : Ubiquiti Networks, Inc.  
**EQUIPMENT** : IsoStation AC  
**BRAND NAME** : UBIQUITI  
**MODEL NAME** : IS-5AC  
**FCC ID** : SWX-IS5AC  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Dec. 24, 2016 and testing was completed on Jan. 25, 2017. 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 0.16 dB at 5458.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.00 dB at 0.150 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

Ubiquiti Networks, Inc.  
2580 Orchard Parkway San Jose, CA 95131

## 1.2 Manufacturer

Ubiquiti Networks, Inc.  
2580 Orchard Parkway San Jose, CA 95131

## 1.3 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: Horn Antenna

## 1.4 Modification of EUT

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



### 1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan 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

**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>	
	03CH10-HY	

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



## 1.6 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 v01r03.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

### **Remark:**

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



## 2 Test Configuration of Equipment Under Test

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

### 2.1 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11ac VHT10	VHT0
802.11ac VHT20	VHT0
802.11ac VHT30	VHT0
802.11ac VHT40	VHT0
802.11ac VHT50	VHT0
802.11ac VHT60	VHT0
802.11ac VHT80	VHT0

<b>AC Conducted Emission</b>	Mode 1 : WLAN (2.4GHz) Link + WLAN (5GHz) Link + RJ-45 Link + PoE Adapter
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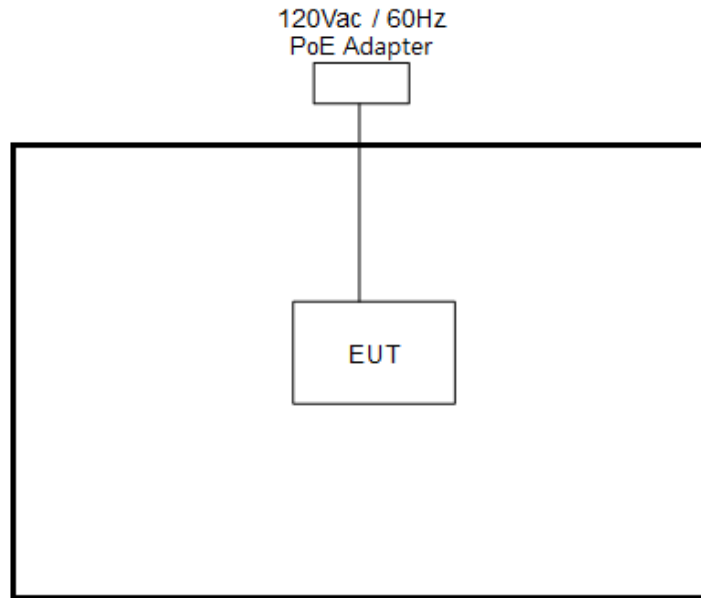
Ch. #		Band IV : 5725-5850 MHz		
		802.11ac VHT10	802.11ac VHT20	802.11ac VHT30
L	Low	147	148	149
M	Middle	158	158	158
H	High	168	167	166

Ch. #		Band IV : 5725-5850 MHz		
		802.11ac VHT40	802.11ac VHT50	802.11ac VHT60
L	Low	150	151	152
M	Middle	158	158	158
H	High	165	164	163

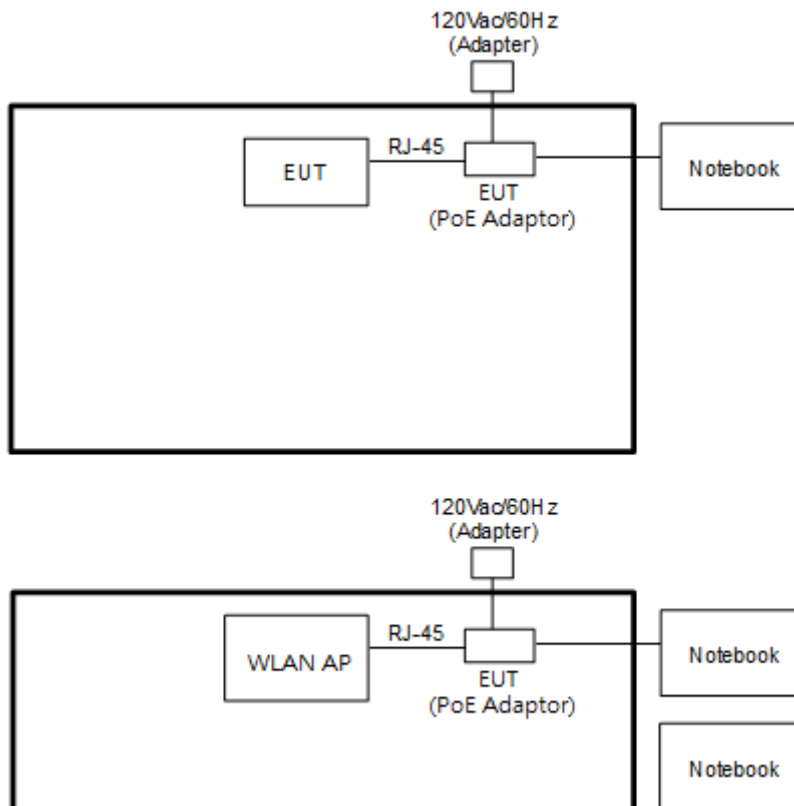
Ch. #		Band IV : 5725-5850 MHz		
		802.11ac VHT80		
L	Low	154		
M	Middle	158		
H	High	161		

## 2.2 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission>





### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	AP	Ubiquiti	IS-5AC	N/A	N/A	Shielded, 1.8 m
2.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

### 2.4 EUT Operation Test Setup

For WLAN function, programmed RF utility, "CMD" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

### 2.5 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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

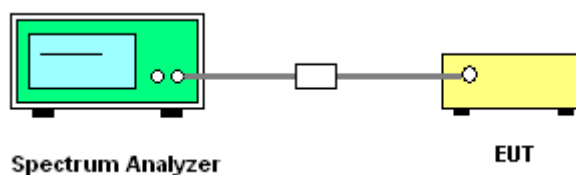
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.  
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

##### 3.1.4 Test Setup

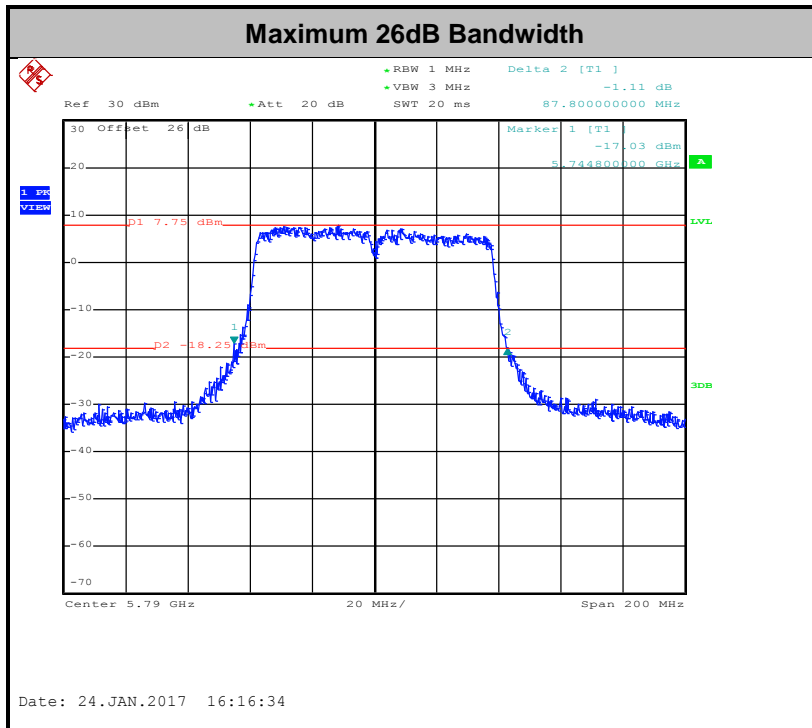
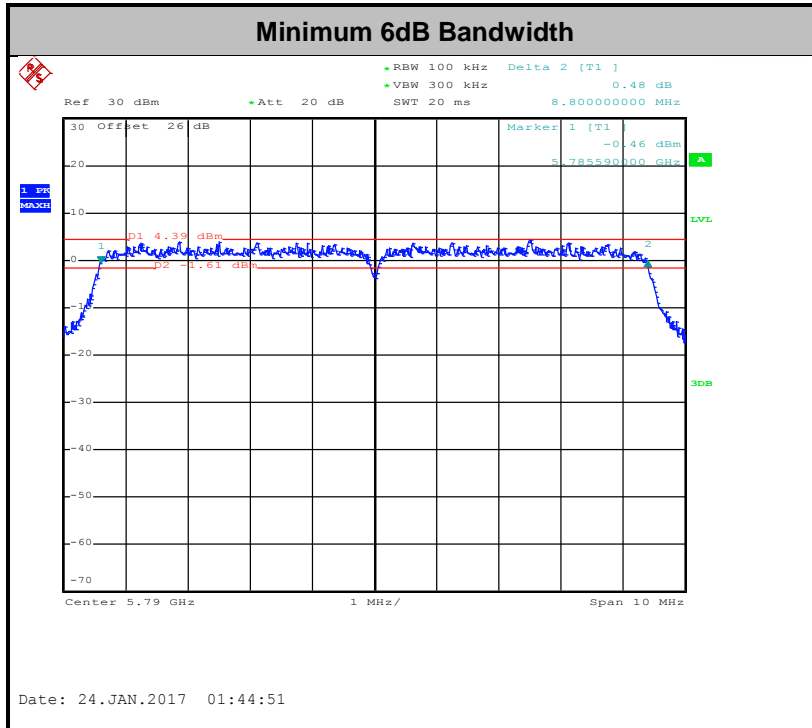


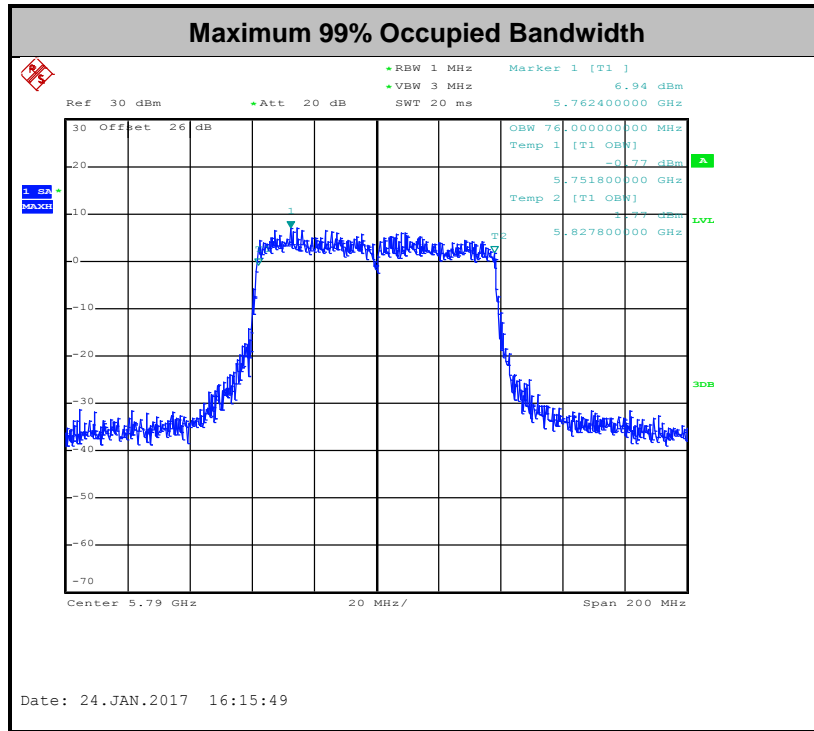


### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

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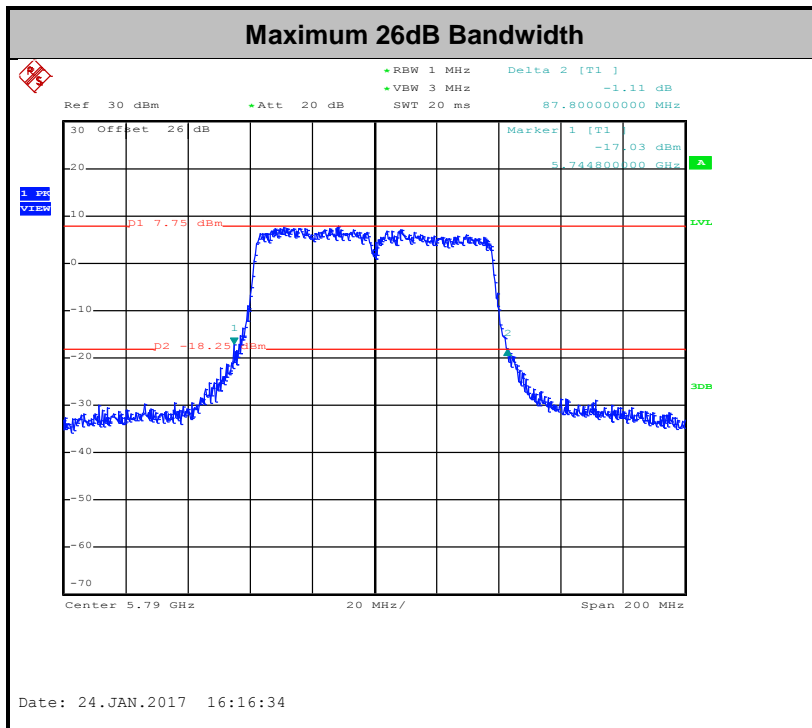
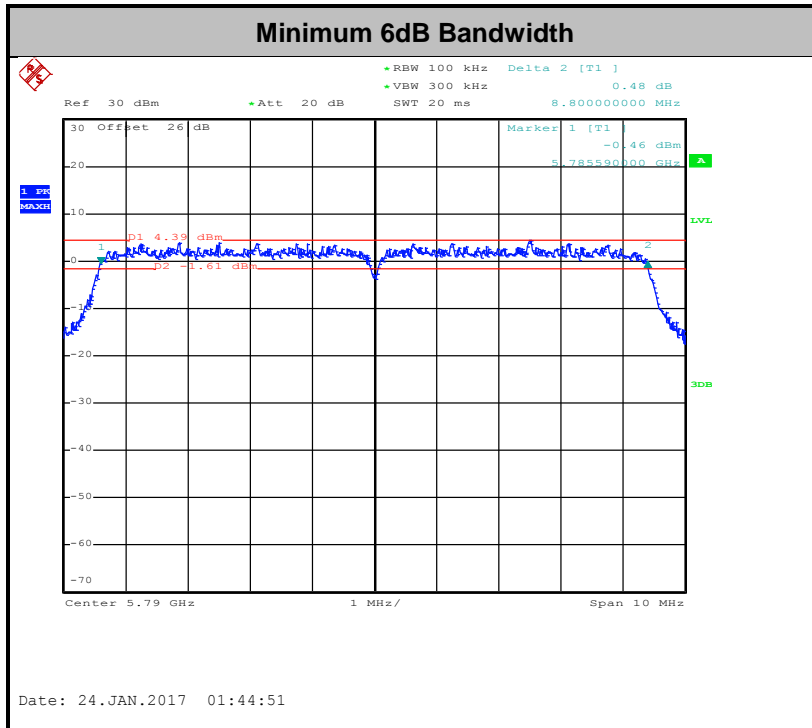


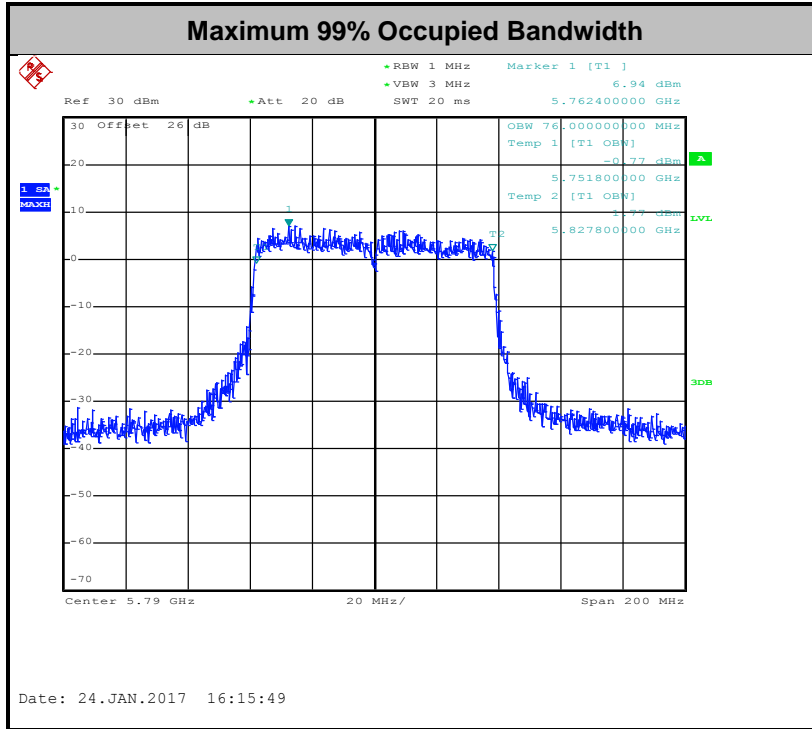


**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<PTMP>





**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

For the band 5.725–5.85 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.

### 3.2.2 Measuring Instruments

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

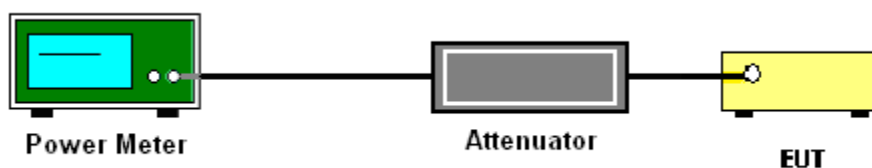
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section F) Maximum power spectral density.

##### # Method SA-2 #

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

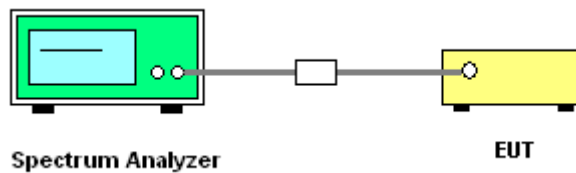
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW  $\geq$  1 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(500\text{kHz}/\text{RBW})$  to the test result.
- Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

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

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit.

### 3.3.4 Test Setup

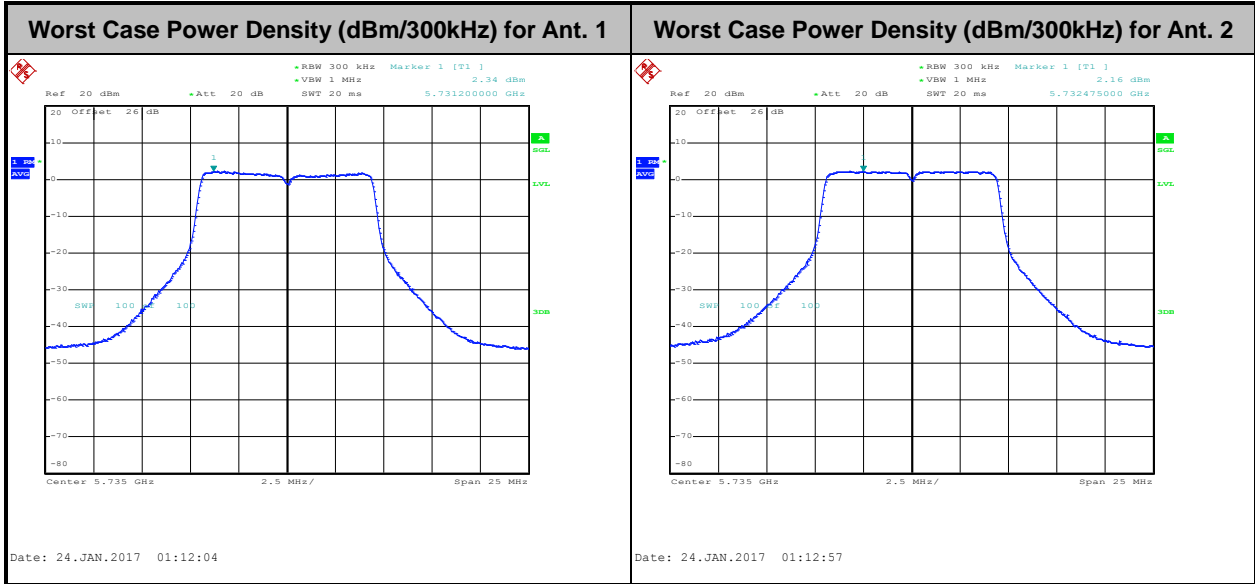




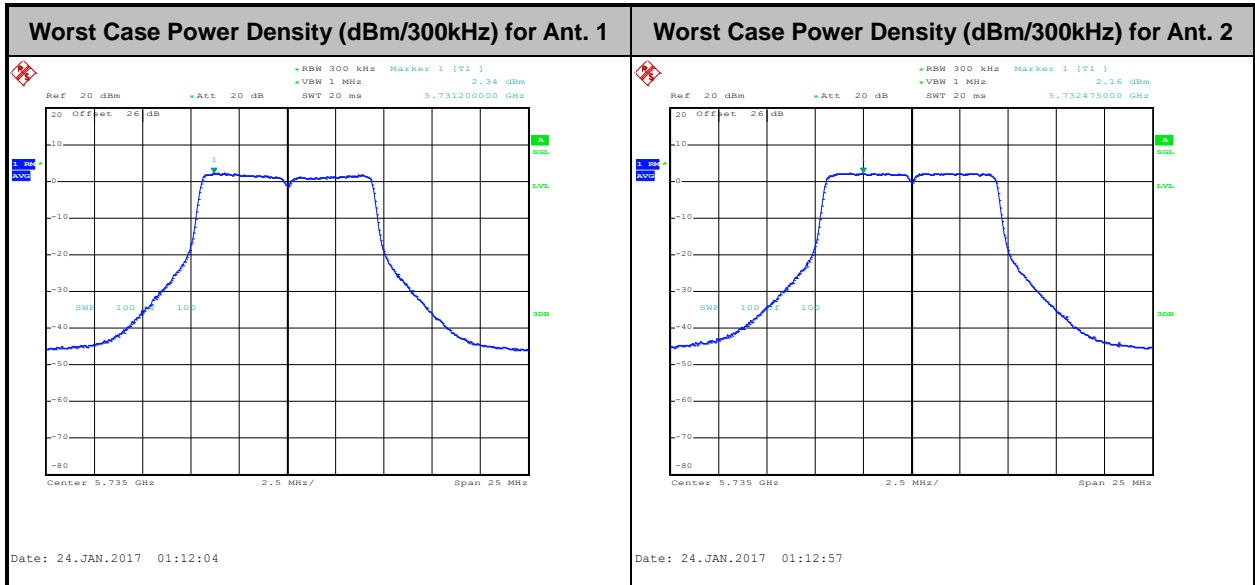
### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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<PTMP>





### 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:  
 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 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)
-17	78.3
- 27	68.3

(3) KDB 789033 D02 General UNII Test Procedures New Rules v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

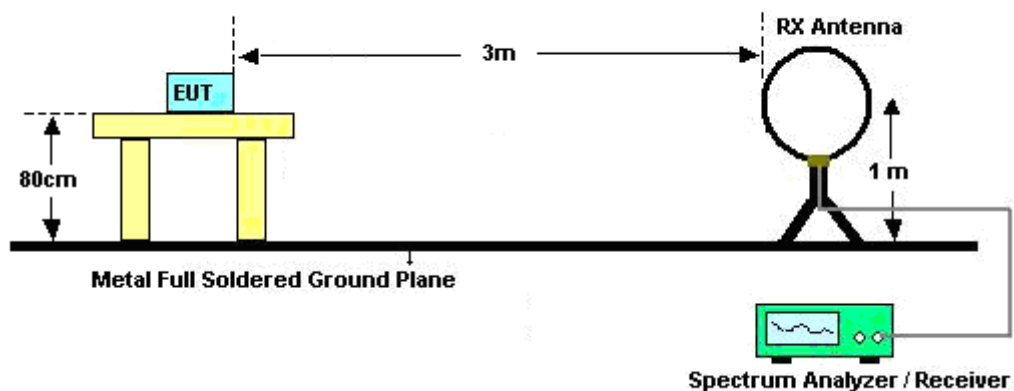
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

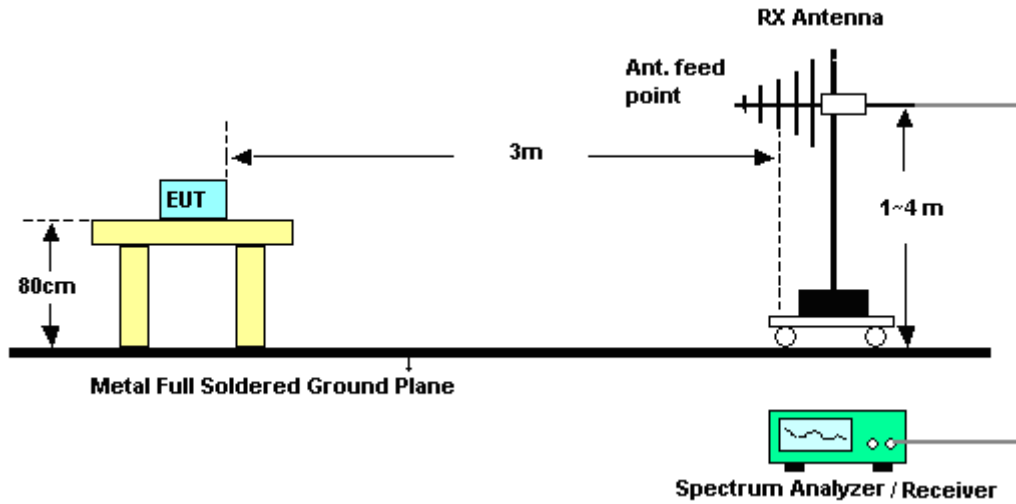
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

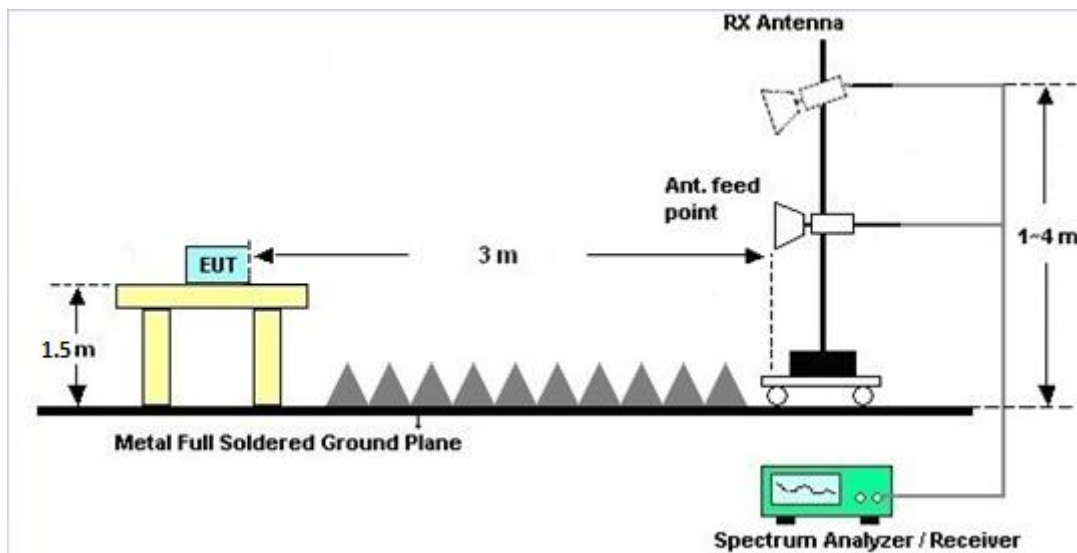
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz







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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

### **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.

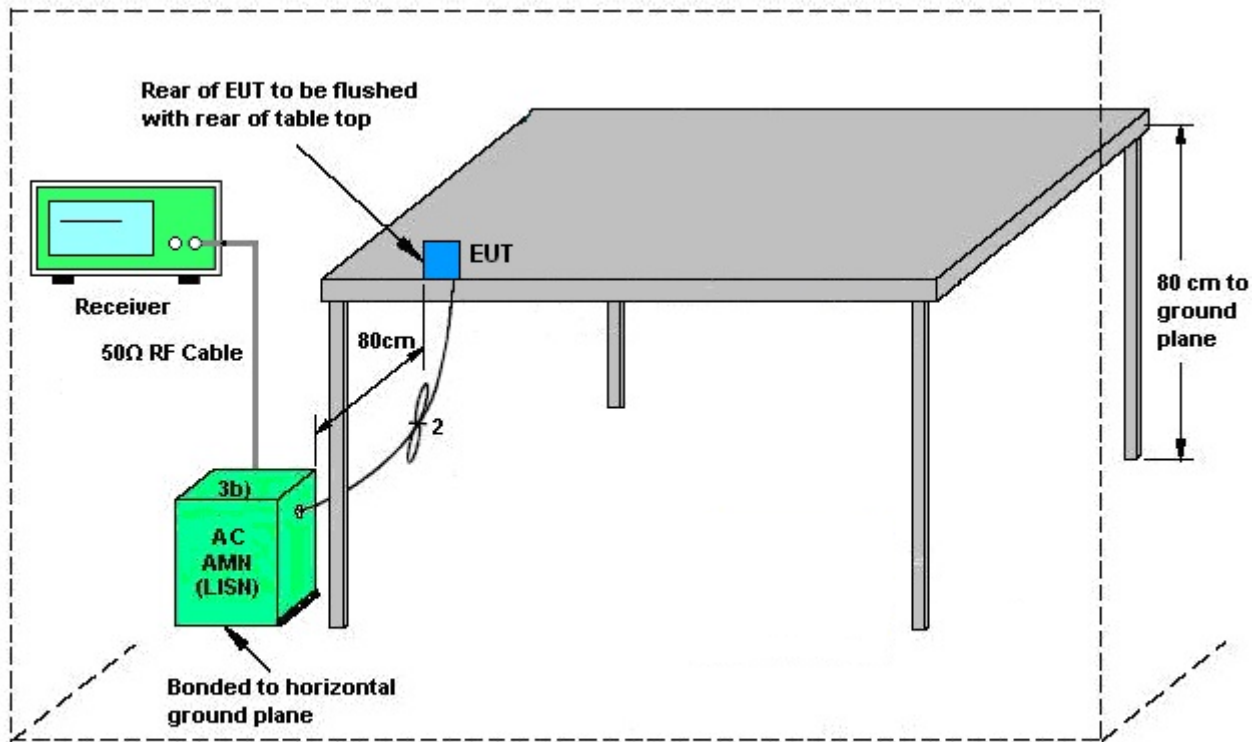
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



AMN = Artificial mains network (LISH)  
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 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

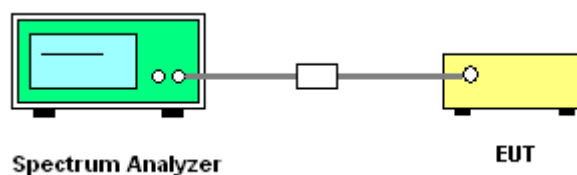
### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



## **3.7 Automatically Discontinue Transmission**

### **3.7.1 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.

### **3.7.2 Measuring Instruments**

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

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

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



### 3.8 Antenna Requirements

#### 3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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.

#### 3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

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

Array Gain =  $10 \log(N_{ANT}/N_{SS}=1)$  dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain  $G_{ANT}$  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.

<PTMP>

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	14.00	14.00	14.00	17.01	8.00	11.01

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

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



<PTP>

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	Ant 1 (dBi)	Ant 2 (dBi)	14.00	17.01	0.00	0.00



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 04, 2016	Jan. 18, 2017 ~ Jan. 25, 2017	Aug. 03, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 04, 2016	Jan. 18, 2017 ~ Jan. 25, 2017	Aug. 03, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 25, 2016	Jan. 18, 2017 ~ Jan. 25, 2017	Nov. 24, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	Jun. 06, 2016	Jan. 18, 2017 ~ Jan. 25, 2017	Jun. 05, 2017	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 26, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Jan. 07, 2017	Jan. 20, 2017 ~ Jan. 22, 2017	Jan. 06, 2018	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Sep. 29, 2017	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Oct. 26, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Feb. 14, 2017	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 17, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Oct. 16, 2017	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 20, 2017 ~ Jan. 22, 2017	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jan. 20, 2017 ~ Jan. 22, 2017	N/A	Radiation (03CH10-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Oct. 19, 2018	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Apr. 14, 2017	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	Jan. 20, 2017 ~ Jan. 22, 2017	Mar. 09, 2017	Radiation (03CH10-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 05, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Jan. 05, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Jan. 05, 2017	Nov. 28, 2017	Conduction (CO05-HY)





## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.7
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.6
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.9
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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. Conducted Test Results**

**<PTP>**

**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2017/01/18~2017/01/25	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

Band IV													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
VHT10	VHT0	2	147	5735	10.28	10.15	13.43	13.75	8.82	8.82	0.5		Pass
VHT10	VHT0	2	158	5790	10.33	10.13	13.50	13.85	8.83	8.80	0.5		Pass
VHT10	VHT0	2	168	5840	10.18	10.15	13.68	13.03	8.83	8.83	0.5		Pass
VHT20	VHT0	2	148	5740	18.85	18.60	24.10	24.40	17.52	17.56	0.5		Pass
VHT20	VHT0	2	158	5790	18.65	18.70	23.90	24.60	17.56	17.56	0.5		Pass
VHT20	VHT0	2	167	5835	18.80	18.75	24.70	24.20	17.56	17.52	0.5		Pass
VHT30	VHT0	2	149	5745	27.75	27.90	36.38	37.65	26.52	26.57	0.5		Pass
VHT30	VHT0	2	158	5790	27.60	27.75	36.00	36.60	26.48	26.57	0.5		Pass
VHT30	VHT0	2	166	5830	27.82	27.98	37.20	37.20	26.57	26.58	0.5		Pass
VHT40	VHT0	2	150	5750	36.60	36.70	44.90	43.80	35.92	36.00	0.5		Pass
VHT40	VHT0	2	158	5790	36.80	36.90	44.70	45.00	36.24	36.28	0.5		Pass
VHT40	VHT0	2	165	5825	36.70	36.80	45.00	44.20	36.32	36.08	0.5		Pass
VHT50	VHT0	2	151	5755	45.00	45.00	54.00	54.50	44.20	44.55	0.5		Pass
VHT50	VHT0	2	158	5790	45.13	45.00	56.45	55.39	44.55	44.50	0.5		Pass
VHT50	VHT0	2	164	5820	44.75	45.00	57.00	53.75	44.50	44.50	0.5		Pass
VHT60	VHT0	2	152	5760	55.35	55.35	66.45	67.65	54.46	54.84	0.5		Pass
VHT60	VHT0	2	158	5790	55.20	55.20	67.50	69.00	54.36	54.90	0.5		Pass
VHT60	VHT0	2	163	5815	55.20	55.35	68.10	68.10	54.88	54.90	0.5		Pass
VHT80	VHT0	2	154	5770	75.80	75.60	84.80	84.40	73.28	73.60	0.5		Pass
VHT80	VHT0	2	158	5790	76.00	75.80	87.80	85.20	74.24	75.68	0.5		Pass
VHT80	VHT0	2	161	5805	76.00	75.60	87.20	84.80	75.44	72.96	0.5		Pass

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

Band IV														
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	
VHT10	VHT0	2	147	5735	0.17	0.17	15.48	16.14	18.83	30.00	30.00	14.00	14.00	Pass
VHT10	VHT0	2	158	5790	0.17	0.17	15.21	15.19	18.21	30.00	30.00	14.00	14.00	Pass
VHT10	VHT0	2	168	5840	0.17	0.17	16.07	15.79	18.94	30.00	30.00	14.00	14.00	Pass
VHT20	VHT0	2	148	5740	0.23	0.23	16.02	16.48	19.27	30.00	30.00	14.00	14.00	Pass
VHT20	VHT0	2	158	5790	0.23	0.23	14.66	14.77	17.73	30.00	30.00	14.00	14.00	Pass
VHT20	VHT0	2	167	5835	0.23	0.23	13.63	13.45	16.55	30.00	30.00	14.00	14.00	Pass
VHT30	VHT0	2	149	5745	0.35	0.35	15.57	16.26	18.94	30.00	30.00	14.00	14.00	Pass
VHT30	VHT0	2	158	5790	0.35	0.35	14.82	15.19	18.02	30.00	30.00	14.00	14.00	Pass
VHT30	VHT0	2	166	5830	0.35	0.35	13.86	13.80	16.84	30.00	30.00	14.00	14.00	Pass
VHT40	VHT0	2	150	5750	0.46	0.47	17.49	18.22	20.88	30.00	30.00	14.00	14.00	Pass
VHT40	VHT0	2	158	5790	0.46	0.47	16.16	16.45	19.32	30.00	30.00	14.00	14.00	Pass
VHT40	VHT0	2	165	5825	0.46	0.47	17.26	17.73	20.51	30.00	30.00	14.00	14.00	Pass
VHT50	VHT0	2	151	5755	0.56	0.56	17.72	18.51	21.14	30.00	30.00	14.00	14.00	Pass
VHT50	VHT0	2	158	5790	0.56	0.56	16.80	17.26	20.04	30.00	30.00	14.00	14.00	Pass
VHT50	VHT0	2	164	5820	0.56	0.56	15.74	16.08	18.92	30.00	30.00	14.00	14.00	Pass
VHT60	VHT0	2	152	5760	0.66	0.62	17.99	18.61	21.32	30.00	30.00	14.00	14.00	Pass
VHT60	VHT0	2	158	5790	0.66	0.62	17.00	17.60	20.32	30.00	30.00	14.00	14.00	Pass
VHT60	VHT0	2	163	5815	0.66	0.62	16.07	16.11	19.10	30.00	30.00	14.00	14.00	Pass
VHT80	VHT0	2	154	5770	0.85	0.90	17.20	17.69	20.46	30.00	30.00	14.00	14.00	Pass
VHT80	VHT0	2	158	5790	0.85	0.90	16.65	17.02	19.85	30.00	30.00	14.00	14.00	Pass
VHT80	VHT0	2	161	5805	0.85	0.90	16.62	17.16	19.91	30.00	30.00	14.00	14.00	Pass

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

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT10	VHT0	2	147	5735	0.17	0.17	2.22				7.74	30.00	17.01		Pass	
VHT10	VHT0	2	158	5790	0.17	0.17	2.22				6.12	30.00	17.01		Pass	
VHT10	VHT0	2	168	5840	0.17	0.17	2.22				7.37	30.00	17.01		Pass	
VHT20	VHT0	2	148	5740	0.23	0.23	2.22				4.58	30.00	17.01		Pass	
VHT20	VHT0	2	158	5790	0.23	0.23	2.22				2.83	30.00	17.01		Pass	
VHT20	VHT0	2	167	5835	0.23	0.23	2.22				1.73	30.00	17.01		Pass	
VHT30	VHT0	2	149	5745	0.35	0.35	2.22				2.75	30.00	17.01		Pass	
VHT30	VHT0	2	158	5790	0.35	0.35	2.22				1.56	30.00	17.01		Pass	
VHT30	VHT0	2	166	5830	0.35	0.35	2.22				0.20	30.00	17.01		Pass	
VHT40	VHT0	2	150	5750	0.46	0.47	2.22				3.30	30.00	17.01		Pass	
VHT40	VHT0	2	158	5790	0.46	0.47	2.22				1.82	30.00	17.01		Pass	
VHT40	VHT0	2	165	5825	0.46	0.47	2.22				2.80	30.00	17.01		Pass	
VHT50	VHT0	2	151	5755	0.56	0.56	2.22				3.11	30.00	17.01		Pass	
VHT50	VHT0	2	158	5790	0.56	0.56	2.22				1.79	30.00	17.01		Pass	
VHT50	VHT0	2	164	5820	0.56	0.56	2.22				0.58	30.00	17.01		Pass	
VHT60	VHT0	2	152	5760	0.66	0.62	2.22				2.47	30.00	17.01		Pass	
VHT60	VHT0	2	158	5790	0.66	0.62	2.22				1.37	30.00	17.01		Pass	
VHT60	VHT0	2	163	5815	0.66	0.62	2.22				-0.01	30.00	17.01		Pass	
VHT80	VHT0	2	154	5770	0.85	0.90	2.22				-0.25	30.00	17.01		Pass	
VHT80	VHT0	2	158	5790	0.85	0.90	2.22				-0.71	30.00	17.01		Pass	
VHT80	VHT0	2	161	5805	0.85	0.90	2.22				-0.60	30.00	17.01		Pass	

**TEST RESULTS DATA**  
**Frequency Stability**

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	70	230	
VHT10	VHT0	1	147	5735	5734.980	-0.020	-3.49	-40	230	
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	20	253	
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	20	207	
VHT10	VHT0	1	147	5735	5734.990	-0.010	-1.74	20	230	



**<PTMP>**



**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2017/01/18~2017/01/25	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

Band IV													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
VHT10	VHT0	2	147	5735	10.28	10.15	13.43	13.75	8.82	8.82	0.5		Pass
VHT10	VHT0	2	158	5790	10.33	10.13	13.50	13.85	8.83	8.80	0.5		Pass
VHT10	VHT0	2	168	5840	10.18	10.15	13.68	13.03	8.83	8.83	0.5		Pass
VHT20	VHT0	2	148	5740	18.85	18.60	24.10	24.40	17.52	17.56	0.5		Pass
VHT20	VHT0	2	158	5790	18.65	18.70	23.90	24.60	17.56	17.56	0.5		Pass
VHT20	VHT0	2	167	5835	18.80	18.75	24.70	24.20	17.56	17.52	0.5		Pass
VHT30	VHT0	2	149	5745	27.75	27.90	36.38	37.65	26.52	26.57	0.5		Pass
VHT30	VHT0	2	158	5790	27.60	27.75	36.00	36.60	26.48	26.57	0.5		Pass
VHT30	VHT0	2	166	5830	27.83	27.98	37.20	37.20	26.57	26.58	0.5		Pass
VHT40	VHT0	2	150	5750	36.60	36.70	44.90	43.80	35.92	36.00	0.5		Pass
VHT40	VHT0	2	158	5790	36.80	36.90	44.70	45.00	36.24	36.28	0.5		Pass
VHT40	VHT0	2	165	5825	36.70	36.80	45.00	44.20	36.32	36.08	0.5		Pass
VHT50	VHT0	2	151	5755	45.00	45.00	54.00	54.50	44.20	44.55	0.5		Pass
VHT50	VHT0	2	158	5790	45.12	45.00	56.45	55.39	44.55	44.50	0.5		Pass
VHT50	VHT0	2	164	5820	44.75	45.00	57.00	53.75	44.50	44.50	0.5		Pass
VHT60	VHT0	2	152	5760	55.35	55.35	66.45	67.65	54.46	54.84	0.5		Pass
VHT60	VHT0	2	158	5790	55.20	55.20	67.50	69.00	54.36	54.90	0.5		Pass
VHT60	VHT0	2	163	5815	55.20	55.35	68.10	68.10	54.88	54.90	0.5		Pass
VHT80	VHT0	2	154	5770	75.80	75.60	84.80	84.40	73.28	73.60	0.5		Pass
VHT80	VHT0	2	158	5790	76.00	75.80	87.80	85.20	74.24	75.68	0.5		Pass
VHT80	VHT0	2	161	5805	76.00	75.60	87.20	84.80	75.44	72.96	0.5		Pass

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

Band IV														
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	
VHT10	VHT0	2	147	5735	0.17	0.17	15.48	16.14	18.83	22.00	22.00	14.00	14.00	Pass
VHT10	VHT0	2	158	5790	0.17	0.17	15.21	15.19	18.21	22.00	22.00	14.00	14.00	Pass
VHT10	VHT0	2	168	5840	0.17	0.17	16.07	15.79	18.94	22.00	22.00	14.00	14.00	Pass
VHT20	VHT0	2	148	5740	0.23	0.23	16.02	16.48	19.27	22.00	22.00	14.00	14.00	Pass
VHT20	VHT0	2	158	5790	0.23	0.23	14.66	14.77	17.73	22.00	22.00	14.00	14.00	Pass
VHT20	VHT0	2	167	5835	0.23	0.23	13.63	13.45	16.55	22.00	22.00	14.00	14.00	Pass
VHT30	VHT0	2	149	5745	0.35	0.35	15.57	16.26	18.94	22.00	22.00	14.00	14.00	Pass
VHT30	VHT0	2	158	5790	0.35	0.35	14.82	15.19	18.02	22.00	22.00	14.00	14.00	Pass
VHT30	VHT0	2	166	5830	0.35	0.35	13.86	13.80	16.84	22.00	22.00	14.00	14.00	Pass
VHT40	VHT0	2	150	5750	0.46	0.52	17.49	18.27	20.91	22.00	22.00	14.00	14.00	Pass
VHT40	VHT0	2	158	5790	0.46	0.52	16.16	16.50	19.35	22.00	22.00	14.00	14.00	Pass
VHT40	VHT0	2	165	5825	0.46	0.52	17.26	17.78	20.54	22.00	22.00	14.00	14.00	Pass
VHT50	VHT0	2	151	5755	0.56	0.56	17.72	18.51	21.14	22.00	22.00	14.00	14.00	Pass
VHT50	VHT0	2	158	5790	0.56	0.56	16.80	17.26	20.04	22.00	22.00	14.00	14.00	Pass
VHT50	VHT0	2	164	5820	0.56	0.56	15.74	16.08	18.92	22.00	22.00	14.00	14.00	Pass
VHT60	VHT0	2	152	5760	0.66	0.62	17.99	18.61	21.32	22.00	22.00	14.00	14.00	Pass
VHT60	VHT0	2	158	5790	0.66	0.62	17.00	17.60	20.32	22.00	22.00	14.00	14.00	Pass
VHT60	VHT0	2	163	5815	0.66	0.62	16.07	16.11	19.10	22.00	22.00	14.00	14.00	Pass
VHT80	VHT0	2	154	5770	0.85	0.90	17.20	17.69	20.46	22.00	22.00	14.00	14.00	Pass
VHT80	VHT0	2	158	5790	0.85	0.90	16.65	17.02	19.85	22.00	22.00	14.00	14.00	Pass
VHT80	VHT0	2	161	5805	0.85	0.90	16.62	17.16	19.91	22.00	22.00	14.00	14.00	Pass

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

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT10	VHT0	2	147	5735	0.17	0.17	2.22				7.74	18.99	17.01		Pass	
VHT10	VHT0	2	158	5790	0.17	0.17	2.22				6.12	18.99	17.01		Pass	
VHT10	VHT0	2	168	5840	0.17	0.17	2.22				7.37	18.99	17.01		Pass	
VHT20	VHT0	2	148	5740	0.23	0.23	2.22				4.58	18.99	17.01		Pass	
VHT20	VHT0	2	158	5790	0.23	0.23	2.22				2.83	18.99	17.01		Pass	
VHT20	VHT0	2	167	5835	0.23	0.23	2.22				1.73	18.99	17.01		Pass	
VHT30	VHT0	2	149	5745	0.35	0.35	2.22				2.75	18.99	17.01		Pass	
VHT30	VHT0	2	158	5790	0.35	0.35	2.22				1.56	18.99	17.01		Pass	
VHT30	VHT0	2	166	5830	0.35	0.35	2.22				0.20	18.99	17.01		Pass	
VHT40	VHT0	2	150	5750	0.46	0.52	2.22				3.35	18.99	17.01		Pass	
VHT40	VHT0	2	158	5790	0.46	0.52	2.22				1.82	18.99	17.01		Pass	
VHT40	VHT0	2	165	5825	0.46	0.52	2.22				2.80	18.99	17.01		Pass	
VHT50	VHT0	2	151	5755	0.56	0.56	2.22				3.11	18.99	17.01		Pass	
VHT50	VHT0	2	158	5790	0.56	0.56	2.22				1.79	18.99	17.01		Pass	
VHT50	VHT0	2	164	5820	0.56	0.56	2.22				0.58	18.99	17.01		Pass	
VHT60	VHT0	2	152	5760	0.66	0.62	2.22				2.47	18.99	17.01		Pass	
VHT60	VHT0	2	158	5790	0.66	0.62	2.22				1.37	18.99	17.01		Pass	
VHT60	VHT0	2	163	5815	0.66	0.62	2.22				-0.01	18.99	17.01		Pass	
VHT80	VHT0	2	154	5770	0.85	0.90	2.22				-0.25	18.99	17.01		Pass	
VHT80	VHT0	2	158	5790	0.85	0.90	2.22				-0.71	18.99	17.01		Pass	
VHT80	VHT0	2	161	5805	0.85	0.90	2.22				-0.60	18.99	17.01		Pass	

**TEST RESULTS DATA**  
**Frequency Stability**

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	70	230	
VHT10	VHT0	1	147	5735	5734.980	-0.020	-3.49	-40	230	
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	20	253	
VHT10	VHT0	1	147	5735	5735.000	0.000	0.00	20	207	
VHT10	VHT0	1	147	5735	5734.990	-0.010	-1.74	20	230	



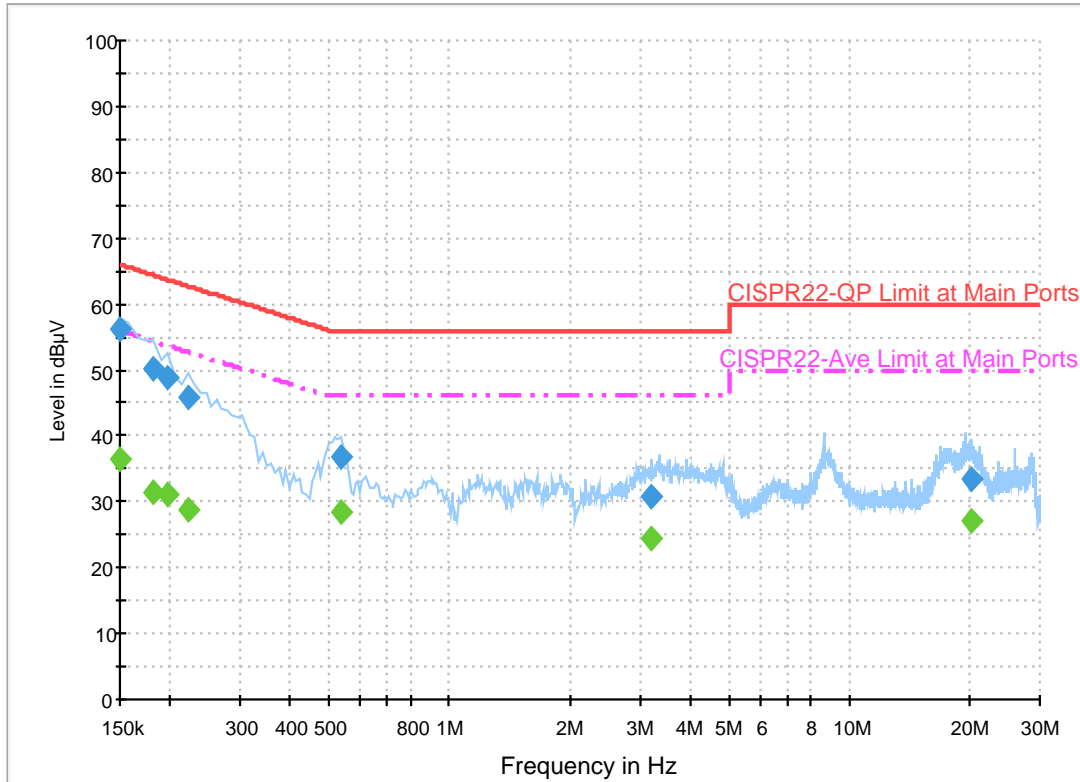
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	24~26°C
		Relative Humidity :	50~51%

# EUT Information

Report NO : 6N2220-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

ENV216 Auto Test FCC Power Bar - L



## Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	56.0	Off	L1	19.6	10.0	66.0
0.182000	50.2	Off	L1	19.6	14.2	64.4
0.198000	48.7	Off	L1	19.6	15.0	63.7
0.222000	45.8	Off	L1	19.6	16.9	62.7
0.534000	36.8	Off	L1	19.6	19.2	56.0
3.214000	30.8	Off	L1	19.6	25.2	56.0
20.270000	33.5	Off	L1	20.6	26.5	60.0

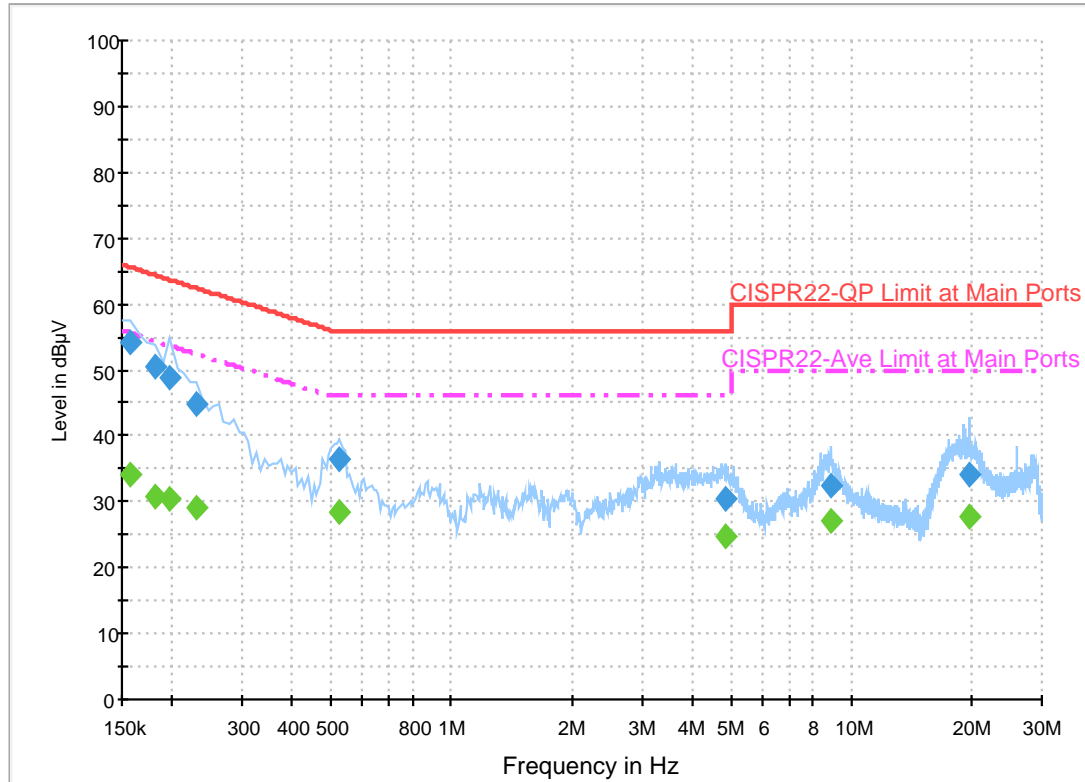
## Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.3	Off	L1	19.6	19.7	56.0
0.182000	31.4	Off	L1	19.6	23.0	54.4
0.198000	31.3	Off	L1	19.6	22.4	53.7
0.222000	28.9	Off	L1	19.6	23.8	52.7
0.534000	28.4	Off	L1	19.6	17.6	46.0
3.214000	24.4	Off	L1	19.6	21.6	46.0
20.270000	27.0	Off	L1	20.6	23.0	50.0

## EUT Information

Report NO : 6N2220-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	54.3	Off	N	19.6	11.3	65.6
0.182000	50.7	Off	N	19.6	13.7	64.4
0.198000	48.7	Off	N	19.6	15.0	63.7
0.230000	44.8	Off	N	19.6	17.6	62.4
0.526000	36.3	Off	N	19.6	19.7	56.0
4.862000	30.4	Off	N	19.8	25.6	56.0
8.918000	32.4	Off	N	20.0	27.6	60.0
19.886000	34.0	Off	N	20.7	26.0	60.0

### Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	34.1	Off	N	19.6	21.5	55.6
0.182000	30.9	Off	N	19.6	23.5	54.4
0.198000	30.4	Off	N	19.6	23.3	53.7
0.230000	29.0	Off	N	19.6	23.4	52.4
0.526000	28.4	Off	N	19.6	17.6	46.0
4.862000	24.7	Off	N	19.8	21.3	46.0
8.918000	27.2	Off	N	20.0	22.8	50.0
19.886000	27.8	Off	N	20.7	22.2	50.0





## Appendix C. Radiated Spurious Emission

Test Engineer :	Tsung Lee, Stan Hsieh, Kyle Chuang	Temperature :	22~24°C
		Relative Humidity :	46~48%

### Band 4 - 5725~5850MHz

#### WIFI 802.11ac VHT10 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT10 CH 147 5735MHz		5638	62.97	-5.23	68.2	54.87	32.48	8.23	32.61	205	179	P	H
		5698.8	62.97	-41.35	104.32	54.79	32.51	8.3	32.63	205	179	P	H
		5720	68.24	-42.56	110.8	60.05	32.53	8.3	32.64	205	179	P	H
		5724.6	77.99	-43.3	121.29	69.77	32.53	8.33	32.64	205	179	P	H
		5122	58.48	-15.52	74	51.14	31.94	7.94	32.54	205	179	P	H
		5122	50.22	-3.78	54	42.88	31.94	7.94	32.54	205	179	A	H
		5452	61.63	-12.37	74	53.55	32.34	8.29	32.55	205	179	P	H
		5452	53.36	-0.64	54	45.28	32.34	8.29	32.55	205	179	A	H
	*	5735	124.56	-	-	116.34	32.54	8.33	32.65	205	179	P	H
	*	5735	115.67	-	-	107.45	32.54	8.33	32.65	205	179	A	H
		5638.2	58.3	-9.9	68.2	50.2	32.48	8.23	32.61	208	180	P	V
		5666.6	60.59	-19.93	80.52	52.44	32.5	8.27	32.62	208	180	P	V
		5720	67.22	-43.58	110.8	59.03	32.53	8.3	32.64	208	180	P	V
		5724.6	77.98	-43.31	121.29	69.76	32.53	8.33	32.64	208	180	P	V
		5056	59.12	-14.88	74	51.78	31.88	7.99	32.53	208	180	P	V
		5056	49.55	-4.45	54	42.21	31.88	7.99	32.53	208	180	A	V
		5386	59.57	-14.43	74	51.57	32.26	8.29	32.55	208	180	P	V
		5386	51.9	-2.1	54	43.9	32.26	8.29	32.55	208	180	A	V
	*	5735	124.71	-	-	116.49	32.54	8.33	32.65	208	180	P	V
*	5735	116.02	-	-	107.8	32.54	8.33	32.65	208	180	A	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5626.2	62.09	-6.11	68.2	53.99	32.47	8.23	32.6	204	181	P	H
		5658.2	61.45	-12.84	74.29	53.31	32.49	8.27	32.62	204	181	P	H
		5719.2	59.96	-50.62	110.58	51.77	32.53	8.3	32.64	204	181	P	H
		5722.8	59.13	-58.05	117.18	50.91	32.53	8.33	32.64	204	181	P	H
		5110	59.43	-14.57	74	52.06	31.94	7.96	32.53	204	181	P	H
		5110	50.6	-3.4	54	43.23	31.94	7.96	32.53	204	181	A	H
		5440	62.18	-11.82	74	54.12	32.32	8.29	32.55	204	181	P	H
		5440	52.62	-1.38	54	44.56	32.32	8.29	32.55	204	181	A	H
	*	5790	122.53	-	-	114.27	32.58	8.35	32.67	204	181	P	H
	*	5790	114.75	-	-	106.49	32.58	8.35	32.67	204	181	A	H
		5853.6	58.28	-55.71	113.99	49.92	32.62	8.43	32.69	204	181	P	H
		5865.8	58.56	-49.21	107.77	50.21	32.62	8.43	32.7	204	181	P	H
<b>802.11ac</b>		5911.6	58.71	-19.38	78.09	50.31	32.65	8.47	32.72	204	181	P	H
<b>VTH10</b>		5926	57.27	-10.93	68.2	48.82	32.66	8.51	32.72	204	181	P	H
<b>CH 158</b>		5637.6	59.57	-8.63	68.2	51.47	32.48	8.23	32.61	192	181	P	V
<b>5790MHz</b>		5700	58.65	-46.55	105.2	50.47	32.51	8.3	32.63	192	181	P	V
		5701.6	58.78	-46.87	105.65	50.59	32.52	8.3	32.63	192	181	P	V
		5723.6	57.68	-61.33	119.01	49.46	32.53	8.33	32.64	192	181	P	V
		5146	58.05	-15.95	74	50.67	31.98	7.94	32.54	192	181	P	V
		5146	50.08	-3.92	54	42.7	31.98	7.94	32.54	192	181	A	V
		5458	60.06	-13.94	74	51.98	32.34	8.29	32.55	192	181	P	V
		5458	51.31	-2.69	54	43.23	32.34	8.29	32.55	192	181	A	V
	*	5790	122.9	-	-	114.64	32.58	8.35	32.67	192	181	P	V
	*	5790	115.65	-	-	107.39	32.58	8.35	32.67	192	181	A	V
		5852.2	57.13	-60.05	117.18	48.78	32.61	8.43	32.69	192	181	P	V
		5867.6	57.53	-49.74	107.27	49.18	32.62	8.43	32.7	192	181	P	V
		5893.2	57.28	-34.42	91.7	48.88	32.64	8.47	32.71	192	181	P	V
		5940.4	54.16	-14.04	68.2	45.71	32.67	8.51	32.73	192	181	P	V



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VTH10 CH 168 5840MHz		5050	61.35	-12.65	74	54.03	31.86	7.99	32.53	206	181	P	H
		5050	52.15	-1.85	54	44.83	31.86	7.99	32.53	206	181	A	H
		5452	62.59	-11.41	74	54.51	32.34	8.29	32.55	206	181	P	H
		5452	53.47	-0.53	54	45.39	32.34	8.29	32.55	206	181	A	H
	*	5840	124.48	-	-	116.17	32.61	8.39	32.69	206	181	P	H
	*	5840	116.09	-	-	107.78	32.61	8.39	32.69	206	181	A	H
		5851.6	83.33	-35.22	118.55	74.98	32.61	8.43	32.69	206	181	P	H
		5856.8	72.49	-37.81	110.3	64.13	32.62	8.43	32.69	206	181	P	H
		5876.2	61.36	-42.95	104.31	53	32.63	8.43	32.7	206	181	P	H
		5946.6	57.95	-10.25	68.2	49.5	32.67	8.51	32.73	206	181	P	H
		5110	58.76	-15.24	74	51.39	31.94	7.96	32.53	200	181	P	V
		5110	49.5	-4.5	54	42.13	31.94	7.96	32.53	200	181	A	V
		5440	62.33	-11.67	74	54.27	32.32	8.29	32.55	200	181	P	V
		5440	52.79	-1.21	54	44.73	32.32	8.29	32.55	200	181	A	V
	*	5840	125.56	-	-	117.25	32.61	8.39	32.69	200	181	P	V
	*	5840	117.02	-	-	108.71	32.61	8.39	32.69	200	181	A	V
		5850.2	80.79	-40.95	121.74	72.44	32.61	8.43	32.69	200	181	P	V
		5855	73.51	-37.29	110.8	65.15	32.62	8.43	32.69	200	181	P	V
		5880.4	57.47	-43.72	101.19	49.11	32.63	8.43	32.7	200	181	P	V
		5935.8	56.06	-12.14	68.2	47.62	32.66	8.51	32.73	200	181	P	V
	5110	58.76	-15.24	74	51.39	31.94	7.96	32.53	200	181	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT10 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT10 CH 147 5735MHz		11470	48.25	-25.75	74	46.85	40.02	12.56	51.18	100	0	P	H	
		17205	50.2	-18	68.2	45.77	40.96	15.61	52.14	100	0	P	H	
													H	
													H	
			11470	48.38	-25.62	74	46.98	40.02	12.56	51.18	100	0	P	V
			17205	50.08	-18.12	68.2	45.65	40.96	15.61	52.14	100	0	P	V
														V
802.11ac VHT10 CH 158 5790MHz		11580	48.89	-25.11	74	47.55	39.88	12.66	51.2	100	0	P	H	
		17370	51.12	-17.08	68.2	46.07	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	48.36	-25.64	74	47.02	39.88	12.66	51.2	100	0	P	V
			17370	51.34	-16.86	68.2	46.29	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT10 CH 168 5840MHz		11680	47.54	-26.46	74	46.28	39.69	12.77	51.2	100	0	P	H	
		17520	52.24	-15.96	68.2	46.47	42.03	15.94	52.2	100	0	P	H	
													H	
													H	
			11680	47.32	-26.68	74	46.06	39.69	12.77	51.2	100	0	P	V
			17520	51.72	-16.48	68.2	45.95	42.03	15.94	52.2	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT20 CH 148 5740MHz		5604.8	61.39	-6.81	68.2	53.3	32.46	8.23	32.6	209	181	P	H
		5668.4	61.22	-20.63	81.85	53.07	32.5	8.27	32.62	209	181	P	H
		5718	75.26	-34.98	110.24	67.07	32.53	8.3	32.64	209	181	P	H
		5724.8	80.48	-41.26	121.74	72.26	32.53	8.33	32.64	209	181	P	H
		5098	59.9	-14.1	74	52.55	31.92	7.96	32.53	209	181	P	H
		5098	50.58	-3.42	54	43.23	31.92	7.96	32.53	209	181	A	H
		5422	62.19	-11.81	74	54.15	32.3	8.29	32.55	209	181	P	H
		5422	52.28	-1.72	54	44.24	32.3	8.29	32.55	209	181	A	H
	*	5740	119.6	-	-	111.38	32.54	8.33	32.65	209	181	P	H
	*	5740	112.87	-	-	104.65	32.54	8.33	32.65	209	181	A	H
		5636.4	59.15	-9.05	68.2	51.05	32.48	8.23	32.61	204	181	P	V
		5651	59.54	-9.4	68.94	51.39	32.49	8.27	32.61	204	181	P	V
		5718.6	73.7	-36.71	110.41	65.51	32.53	8.3	32.64	204	181	P	V
		5724	80.83	-39.09	119.92	72.61	32.53	8.33	32.64	204	181	P	V
		5140	57.59	-16.41	74	50.21	31.98	7.94	32.54	204	181	P	V
		5140	48.95	-5.05	54	41.57	31.98	7.94	32.54	204	181	A	V
		5446	60.27	-13.73	74	52.19	32.34	8.29	32.55	204	181	P	V
		5446	49.19	-4.81	54	41.11	32.34	8.29	32.55	204	181	A	V
*	5740	120.84	-	-	112.62	32.54	8.33	32.65	204	181	P	V	
*	5740	113.26	-	-	105.04	32.54	8.33	32.65	204	181	A	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT20 CH 158 5790MHz		5602.2	61.47	-6.73	68.2	53.37	32.46	8.23	32.59	207	182	P	H
		5673	60.89	-24.37	85.26	52.74	32.5	8.27	32.62	207	182	P	H
		5713	60.94	-47.9	108.84	52.76	32.52	8.3	32.64	207	182	P	H
		5722	58.89	-56.47	115.36	50.67	32.53	8.33	32.64	207	182	P	H
		5074	59.35	-14.65	74	51.99	31.9	7.99	32.53	207	182	P	H
		5074	50.11	-3.89	54	42.75	31.9	7.99	32.53	207	182	A	H
		5392	61.44	-12.56	74	53.44	32.26	8.29	32.55	207	182	P	H
		5392	52.24	-1.76	54	44.24	32.26	8.29	32.55	207	182	A	H
	*	5790	117.65	-	-	109.39	32.58	8.35	32.67	207	182	P	H
	*	5790	111.35	-	-	103.09	32.58	8.35	32.67	207	182	A	H
		5850.4	56.97	-64.32	121.29	48.62	32.61	8.43	32.69	207	182	P	H
		5863.8	58.66	-49.67	108.33	50.31	32.62	8.43	32.7	207	182	P	H
		5886.6	58.35	-38.24	96.59	49.96	32.63	8.47	32.71	207	182	P	H
		5942.6	56.6	-11.6	68.2	48.15	32.67	8.51	32.73	207	182	P	H
		5602.4	58.72	-9.48	68.2	50.62	32.46	8.23	32.59	209	181	P	V
		5653.2	58.85	-11.73	70.58	50.7	32.49	8.27	32.61	209	181	P	V
		5714	59.03	-50.09	109.12	50.85	32.52	8.3	32.64	209	181	P	V
		5724.8	57.19	-64.55	121.74	48.97	32.53	8.33	32.64	209	181	P	V
		5146	59.15	-14.85	74	51.77	31.98	7.94	32.54	209	181	P	V
		5146	50.16	-3.84	54	42.78	31.98	7.94	32.54	209	181	A	V
		5350.01	60.43	-13.57	74	52.52	32.22	8.23	32.54	209	181	P	V
		5350.01	50.31	-3.69	54	42.4	32.22	8.23	32.54	209	181	A	V
	*	5790	119.67	-	-	111.41	32.58	8.35	32.67	209	181	P	V
	*	5790	112.04	-	-	103.78	32.58	8.35	32.67	209	181	A	V
		5853.2	56.85	-58.05	114.9	48.5	32.61	8.43	32.69	209	181	P	V
		5866.4	55.99	-51.62	107.61	47.64	32.62	8.43	32.7	209	181	P	V
		5882.2	56.16	-43.69	99.85	47.76	32.63	8.47	32.7	209	181	P	V
		5950	54.49	-13.71	68.2	46.04	32.67	8.51	32.73	209	181	P	V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT20 CH 167 5835MHz		5134	58.46	-15.54	74	51.1	31.96	7.94	32.54	193	180	P	H
		5134	48.91	-5.09	54	41.55	31.96	7.94	32.54	193	180	A	H
		5428	61.23	-12.77	74	53.19	32.3	8.29	32.55	193	180	P	H
		5428	52.01	-1.99	54	43.97	32.3	8.29	32.55	193	180	A	H
	*	5835	117.13	-	-	108.83	32.6	8.39	32.69	193	180	P	H
	*	5835	109.68	-	-	101.38	32.6	8.39	32.69	193	180	A	H
		5850	79.38	-42.82	122.2	71.03	32.61	8.43	32.69	193	180	P	H
		5855.8	73.56	-37.02	110.58	65.2	32.62	8.43	32.69	193	180	P	H
		5887.4	57.43	-38.56	95.99	49.04	32.63	8.47	32.71	193	180	P	H
		5947.8	56.31	-11.89	68.2	47.86	32.67	8.51	32.73	193	180	P	H
		5074	58.46	-15.54	74	51.1	31.9	7.99	32.53	202	181	P	V
		5074	48.5	-5.5	54	41.14	31.9	7.99	32.53	202	181	A	V
		5386	60.94	-13.06	74	52.94	32.26	8.29	32.55	202	181	P	V
		5386	50.14	-3.86	54	42.14	32.26	8.29	32.55	202	181	A	V
	*	5835	117.64	-	-	109.34	32.6	8.39	32.69	202	181	P	V
	*	5835	111.08	-	-	102.78	32.6	8.39	32.69	202	181	A	V
		5850	81.43	-40.77	122.2	73.08	32.61	8.43	32.69	202	181	P	V
		5855.6	73.06	-37.57	110.63	64.7	32.62	8.43	32.69	202	181	P	V
	5879.2	56.86	-45.22	102.08	48.5	32.63	8.43	32.7	202	181	P	V	
	5927	54.59	-13.61	68.2	46.14	32.66	8.51	32.72	202	181	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT20 CH 148 5740MHz		11480	48.39	-25.61	74	46.97	40.02	12.58	51.18	100	0	P	H	
		17220	50.25	-17.95	68.2	45.78	41.01	15.61	52.15	100	0	P	H	
													H	
													H	
			11480	47.88	-26.12	74	46.46	40.02	12.58	51.18	100	0	P	V
			17220	50.58	-17.62	68.2	46.11	41.01	15.61	52.15	100	0	P	V
														V
802.11ac VHT20 CH 158 5790MHz		11580	47.64	-26.36	74	46.3	39.88	12.66	51.2	100	0	P	H	
		17370	50.95	-17.25	68.2	45.9	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	47.82	-26.18	74	46.48	39.88	12.66	51.2	100	0	P	V
			17370	51.57	-16.63	68.2	46.52	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT20 CH 167 5835MHz		11670	46.88	-27.12	74	45.66	39.69	12.73	51.2	100	0	P	H	
		17505	51.76	-16.44	68.2	46.23	41.8	15.93	52.2	100	0	P	H	
													H	
													H	
			11670	47.59	-26.41	74	46.37	39.69	12.73	51.2	100	0	P	V
			17505	51.24	-16.96	68.2	45.71	41.8	15.93	52.2	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													





**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT30 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5622.4	61.87	-6.33	68.2	53.77	32.47	8.23	32.6	206	180	P	H
		5697	64.94	-38.05	102.99	56.76	32.51	8.3	32.63	206	180	P	H
		5720	76.56	-34.24	110.8	68.37	32.53	8.3	32.64	206	180	P	H
		5724	84.06	-35.86	119.92	75.84	32.53	8.33	32.64	206	180	P	H
		5110	58.16	-15.84	74	50.79	31.94	7.96	32.53	206	180	P	H
		5110	49.13	-4.87	54	41.76	31.94	7.96	32.53	206	180	A	H
		5392	62.08	-11.92	74	54.08	32.26	8.29	32.55	206	180	P	H
		5392	52.77	-1.23	54	44.77	32.26	8.29	32.55	206	180	A	H
	*	5745	116.13	-	-	107.91	32.54	8.33	32.65	206	180	P	H
	*	5745	110.56	-	-	102.34	32.54	8.33	32.65	206	180	A	H
		5850.6	56.35	-64.48	120.83	48	32.61	8.43	32.69	206	180	P	H
		5862.4	56.74	-51.99	108.73	48.39	32.62	8.43	32.7	206	180	P	H
<b>802.11ac</b>		5892.2	57.07	-35.37	92.44	48.67	32.64	8.47	32.71	206	180	P	H
<b>VHT30</b>		5936.6	56.37	-11.83	68.2	47.93	32.66	8.51	32.73	206	180	P	H
<b>CH 149</b>		5619.8	60.14	-8.06	68.2	52.04	32.47	8.23	32.6	195	181	P	V
<b>5745MHz</b>		5699.2	64.85	-39.76	104.61	56.67	32.51	8.3	32.63	195	181	P	V
		5719.6	80.35	-30.34	110.69	72.16	32.53	8.3	32.64	195	181	P	V
		5724	84.76	-35.16	119.92	76.54	32.53	8.33	32.64	195	181	P	V
		5128	58.78	-15.22	74	51.42	31.96	7.94	32.54	195	181	P	V
		5128	49.98	-4.02	54	42.62	31.96	7.94	32.54	195	181	A	V
		5422	59.78	-14.22	74	51.74	32.3	8.29	32.55	195	181	P	V
		5422	51.17	-2.83	54	43.13	32.3	8.29	32.55	195	181	A	V
	*	5745	116.81	-	-	108.59	32.54	8.33	32.65	195	181	P	V
	*	5745	110.31	-	-	102.09	32.54	8.33	32.65	195	181	A	V
		5850.2	57.89	-63.85	121.74	49.54	32.61	8.43	32.69	195	181	P	V
		5871.4	56.43	-49.78	106.21	48.07	32.63	8.43	32.7	195	181	P	V
		5891.4	55.85	-37.18	93.03	47.45	32.64	8.47	32.71	195	181	P	V
		5925.6	55.08	-13.12	68.2	46.63	32.66	8.51	32.72	195	181	P	V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5624.2	62.44	-5.76	68.2	54.34	32.47	8.23	32.6	200	181	P	H
		5666.4	61.34	-19.03	80.37	53.2	32.49	8.27	32.62	200	181	P	H
		5706	60.44	-46.44	106.88	52.26	32.52	8.3	32.64	200	181	P	H
		5724.6	58.79	-62.5	121.29	50.57	32.53	8.33	32.64	200	181	P	H
		4990	58.59	-15.41	74	51.27	31.8	8.05	32.53	200	181	P	H
		4990	48.45	-5.55	54	41.13	31.8	8.05	32.53	200	181	A	H
		5458	61	-13	74	52.92	32.34	8.29	32.55	200	181	P	H
		5458	51.93	-2.07	54	43.85	32.34	8.29	32.55	200	181	A	H
	*	5790	115.42	-	-	107.16	32.58	8.35	32.67	200	181	P	H
	*	5790	109.67	-	-	101.41	32.58	8.35	32.67	200	181	A	H
		5853.6	57.61	-56.38	113.99	49.25	32.62	8.43	32.69	200	181	P	H
		5860	57.28	-52.12	109.4	48.93	32.62	8.43	32.7	200	181	P	H
<b>802.11ac</b>		5877.8	56.68	-46.44	103.12	48.32	32.63	8.43	32.7	200	181	P	H
<b>VHT30</b>		5936.2	56.14	-12.06	68.2	47.7	32.66	8.51	32.73	200	181	P	H
<b>CH 158</b>		5645.8	58.25	-9.95	68.2	50.11	32.48	8.27	32.61	183	181	P	V
<b>5790MHz</b>		5696.4	58.42	-44.13	102.55	50.24	32.51	8.3	32.63	183	181	P	V
		5714.6	58.72	-50.57	109.29	50.54	32.52	8.3	32.64	183	181	P	V
		5722.4	58.74	-57.53	116.27	50.52	32.53	8.33	32.64	183	181	P	V
		5146	58.79	-15.21	74	51.41	31.98	7.94	32.54	183	181	P	V
		5146	49.31	-4.69	54	41.93	31.98	7.94	32.54	183	181	A	V
		5410	59.44	-14.56	74	51.42	32.28	8.29	32.55	183	181	P	V
		5410	50.33	-3.67	54	42.31	32.28	8.29	32.55	183	181	A	V
	*	5790	116.27	-	-	108.01	32.58	8.35	32.67	183	181	P	V
	*	5790	109.98	-	-	101.72	32.58	8.35	32.67	183	181	A	V
		5850.2	57.47	-64.27	121.74	49.12	32.61	8.43	32.69	183	181	P	V
		5857.4	56.8	-53.33	110.13	48.44	32.62	8.43	32.69	183	181	P	V
		5886.4	56.33	-40.41	96.74	47.94	32.63	8.47	32.71	183	181	P	V
		5939.6	55.22	-12.98	68.2	46.77	32.67	8.51	32.73	183	181	P	V



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT30 CH 166 5830MHz		5601.8	61.93	-6.27	68.2	53.83	32.46	8.23	32.59	188	179	P	H	
		5679.2	60.57	-29.28	89.85	52.42	32.5	8.27	32.62	188	179	P	H	
		5716.2	60	-49.74	109.74	51.82	32.52	8.3	32.64	188	179	P	H	
		5723.4	58.86	-59.69	118.55	50.64	32.53	8.33	32.64	188	179	P	H	
		5056	59.08	-14.92	74	51.74	31.88	7.99	32.53	188	179	P	H	
		5056	49.55	-4.45	54	42.21	31.88	7.99	32.53	188	179	A	H	
		5374	61.37	-12.63	74	53.39	32.24	8.29	32.55	188	179	P	H	
		5374	52.58	-1.42	54	44.6	32.24	8.29	32.55	188	179	A	H	
		*	5830	115.06	-	-	106.75	32.6	8.39	32.68	188	179	P	H
		*	5830	108.85	-	-	100.54	32.6	8.39	32.68	188	179	A	H
			5850	82.66	-39.54	122.2	74.31	32.61	8.43	32.69	188	179	P	H
			5856.2	77.73	-32.73	110.46	69.37	32.62	8.43	32.69	188	179	P	H
			5878.4	59.24	-43.43	102.67	50.88	32.63	8.43	32.7	188	179	P	H
			5944.8	57.13	-11.07	68.2	48.68	32.67	8.51	32.73	188	179	P	H
			5632.6	59.79	-8.41	68.2	51.69	32.48	8.23	32.61	190	183	P	V
			5667.8	59.8	-21.61	81.41	51.65	32.5	8.27	32.62	190	183	P	V
			5719.8	58.61	-52.13	110.74	50.42	32.53	8.3	32.64	190	183	P	V
			5720	58.49	-52.31	110.8	50.3	32.53	8.3	32.64	190	183	P	V
			5140	57.7	-16.3	74	50.32	31.98	7.94	32.54	190	183	P	V
			5140	49.99	-4.01	54	42.61	31.98	7.94	32.54	190	183	A	H
			5416	59.72	-14.28	74	51.68	32.3	8.29	32.55	190	183	P	V
			5416	50.92	-3.08	54	42.88	32.3	8.29	32.55	190	183	A	V
		*	5830	115.82	-	-	107.51	32.6	8.39	32.68	190	183	P	V
		*	5830	110.05	-	-	101.74	32.6	8.39	32.68	190	183	A	V
			5850	81.81	-40.39	122.2	73.46	32.61	8.43	32.69	190	183	P	V
			5855	75.47	-35.33	110.8	67.11	32.62	8.43	32.69	190	183	P	V
			5877	62.87	-40.84	103.71	54.51	32.63	8.43	32.7	190	183	P	V
			5932.2	55.2	-13	68.2	46.75	32.66	8.51	32.72	190	183	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11n VHT30 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT30 CH 149 5745MHz		11490	47.76	-26.24	74	46.37	40.01	12.58	51.2	100	0	P	H	
		17235	50.51	-17.69	68.2	45.95	41.05	15.66	52.15	100	0	P	H	
													H	
													H	
			11490	48.61	-25.39	74	47.22	40.01	12.58	51.2	100	0	P	V
			17235	49.99	-18.21	68.2	45.43	41.05	15.66	52.15	100	0	P	V
														V
802.11ac VHT30 CH 158 5790MHz		11580	47.87	-26.13	74	46.53	39.88	12.66	51.2	100	0	P	H	
		17370	50.35	-17.85	68.2	45.3	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	47.27	-26.73	74	45.93	39.88	12.66	51.2	100	0	P	V
			17370	50.88	-17.32	68.2	45.83	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT30 CH 166 5830MHz		11660	47.99	-26.01	74	46.74	39.72	12.73	51.2	100	0	P	H	
		17490	52.14	-16.06	68.2	46.66	41.75	15.93	52.2	100	0	P	H	
													H	
													H	
			11660	47.69	-26.31	74	46.44	39.72	12.73	51.2	100	0	P	V
			17490	51.08	-17.12	68.2	45.6	41.75	15.93	52.2	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT40 CH 150 5750MHz		5646	59.34	-8.86	68.2	51.2	32.48	8.27	32.61	206	180	P	H	
		5699.2	67.21	-37.4	104.61	59.03	32.51	8.3	32.63	206	180	P	H	
		5720	81.68	-29.12	110.8	73.49	32.53	8.3	32.64	206	180	P	H	
		5721.2	84.63	-28.91	113.54	76.44	32.53	8.3	32.64	206	180	P	H	
		5116	56.73	-17.27	74	49.36	31.94	7.96	32.53	206	180	P	H	
		5116	47.6	-6.4	54	40.23	31.94	7.96	32.53	206	180	A	H	
		5446	59.08	-14.92	74	51	32.34	8.29	32.55	206	180	P	H	
		5446	50.76	-3.24	54	42.68	32.34	8.29	32.55	206	180	A	H	
		*	5750	119.65	-	-	111.43	32.54	8.33	32.65	206	180	P	H
		*	5750	112.01	-	-	103.79	32.54	8.33	32.65	206	180	A	H
			5854.2	54.61	-58.01	112.62	46.25	32.62	8.43	32.69	206	180	P	H
			5857.4	55.26	-54.87	110.13	46.9	32.62	8.43	32.69	206	180	P	H
			5887	55.3	-40.99	96.29	46.91	32.63	8.47	32.71	206	180	P	H
			5928.2	53.43	-14.77	68.2	44.98	32.66	8.51	32.72	206	180	P	H
			5642	59.61	-8.59	68.2	51.47	32.48	8.27	32.61	206	181	P	V
			5700	70.08	-35.12	105.2	61.9	32.51	8.3	32.63	206	181	P	V
			5719.6	83.21	-27.48	110.69	75.02	32.53	8.3	32.64	206	181	P	V
			5723.2	87.29	-30.81	118.1	79.07	32.53	8.33	32.64	206	181	P	V
			5080	58.49	-15.51	74	51.13	31.9	7.99	32.53	206	181	P	V
			5080	49.59	-4.41	54	42.23	31.9	7.99	32.53	206	181	A	V
			5434	61.14	-12.86	74	53.08	32.32	8.29	32.55	206	181	P	V
			5434	52.38	-1.62	54	44.32	32.32	8.29	32.55	206	181	A	V
		*	5750	120.19	-	-	111.97	32.54	8.33	32.65	206	181	P	V
		*	5750	112.08	-	-	103.86	32.54	8.33	32.65	206	181	A	V
		5852	57.86	-59.78	117.64	49.51	32.61	8.43	32.69	206	181	P	V	
		5856.4	57.12	-53.29	110.41	48.76	32.62	8.43	32.69	206	181	P	V	
		5884.8	56.25	-41.67	97.92	47.86	32.63	8.47	32.71	206	181	P	V	
		5939.6	55.17	-13.03	68.2	46.72	32.67	8.51	32.73	206	181	P	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT40 CH 158 5790MHz		5617	59.9	-8.3	68.2	51.8	32.47	8.23	32.6	192	181	P	H	
		5684.4	59.22	-34.47	93.69	51.04	32.51	8.3	32.63	192	181	P	H	
		5719.4	61.03	-49.6	110.63	52.84	32.53	8.3	32.64	192	181	P	H	
		5721.2	61.98	-51.56	113.54	53.79	32.53	8.3	32.64	192	181	P	H	
		5140	55.91	-18.09	74	48.53	31.98	7.94	32.54	192	181	P	H	
		5140	47.57	-6.43	54	40.19	31.98	7.94	32.54	192	181	A	H	
		5440	59.42	-14.58	74	51.36	32.32	8.29	32.55	192	181	P	H	
		5440	50.54	-3.46	54	42.48	32.32	8.29	32.55	192	181	A	H	
		*	5790	116.29	-	-	108.03	32.58	8.35	32.67	192	181	P	H
		*	5790	109.7	-	-	101.44	32.58	8.35	32.67	192	181	A	H
			5854.2	63.62	-49	112.62	55.26	32.62	8.43	32.69	192	181	P	H
			5859.2	60	-49.62	109.62	51.65	32.62	8.43	32.7	192	181	P	H
			5884	55.59	-42.93	98.52	47.2	32.63	8.47	32.71	192	181	P	H
			5931.2	54	-14.2	68.2	45.55	32.66	8.51	32.72	192	181	P	H
			5602.8	57.86	-10.34	68.2	49.77	32.46	8.23	32.6	204	180	P	V
			5666.6	59.61	-20.91	80.52	51.46	32.5	8.27	32.62	204	180	P	V
			5716.2	61.7	-48.04	109.74	53.52	32.52	8.3	32.64	204	180	P	V
			5723	62.02	-55.62	117.64	53.8	32.53	8.33	32.64	204	180	P	V
			5134	55.75	-18.25	74	48.39	31.96	7.94	32.54	204	180	P	V
			5134	49.47	-4.53	54	42.11	31.96	7.94	32.54	204	180	A	V
			5458	56.85	-17.15	74	48.77	32.34	8.29	32.55	204	180	P	V
			5458	51.6	-2.4	54	43.52	32.34	8.29	32.55	204	180	A	V
		*	5790	117.7	-	-	109.44	32.58	8.35	32.67	204	180	P	V
		*	5790	111.83	-	-	103.57	32.58	8.35	32.67	204	180	A	V
		5855	63.85	-46.95	110.8	55.49	32.62	8.43	32.69	204	180	P	V	
		5855	63.85	-46.95	110.8	55.49	32.62	8.43	32.69	204	180	P	V	
		5877.8	56.78	-46.34	103.12	48.42	32.63	8.43	32.7	204	180	P	V	
		5945.8	53.87	-14.33	68.2	45.42	32.67	8.51	32.73	204	180	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT40 CH 165 5825MHz		5601.2	59.8	-8.4	68.2	51.73	32.46	8.2	32.59	199	181	P	H
		5657.8	59.74	-14.25	73.99	51.6	32.49	8.27	32.62	199	181	P	H
		5707.8	57.42	-49.97	107.39	49.24	32.52	8.3	32.64	199	181	P	H
		5723	59.32	-58.32	117.64	51.1	32.53	8.33	32.64	199	181	P	H
		5116	57.22	-16.78	74	49.85	31.94	7.96	32.53	199	181	P	H
		5116	47.24	-6.76	54	39.87	31.94	7.96	32.53	199	181	A	H
		5458	58.75	-15.25	74	50.67	32.34	8.29	32.55	199	181	P	H
		5458	50.44	-3.56	54	42.36	32.34	8.29	32.55	199	181	A	H
	*	5825	119.76	-	-	111.45	32.6	8.39	32.68	199	181	P	H
	*	5825	111.1	-	-	102.79	32.6	8.39	32.68	199	181	A	H
		5850.8	88.35	-32.03	120.38	80	32.61	8.43	32.69	199	181	P	H
		5858	85.73	-24.23	109.96	77.38	32.62	8.43	32.7	199	181	P	H
		5876.6	71.98	-32.03	104.01	63.62	32.63	8.43	32.7	199	181	P	H
		5932.6	54.63	-13.57	68.2	46.18	32.66	8.51	32.72	199	181	P	H
		5601	59.5	-8.7	68.2	51.43	32.46	8.2	32.59	204	180	P	V
		5652.4	60.23	-9.75	69.98	52.08	32.49	8.27	32.61	204	180	P	V
		5718.8	60.12	-50.34	110.46	51.93	32.53	8.3	32.64	204	180	P	V
		5720.6	59.73	-52.44	112.17	51.54	32.53	8.3	32.64	204	180	P	V
		5056	59.42	-14.58	74	52.08	31.88	7.99	32.53	204	180	P	V
		5056	49.47	-4.53	54	42.13	31.88	7.99	32.53	204	180	A	V
		5356	61.46	-12.54	74	53.55	32.22	8.23	32.54	204	180	P	V
		5356	52.11	-1.89	54	44.2	32.22	8.23	32.54	204	180	A	V
	*	5825	120.63	-	-	112.32	32.6	8.39	32.68	204	180	P	V
*	5825	112.71	-	-	104.4	32.6	8.39	32.68	204	180	A	V	
	5850.2	86.55	-35.19	121.74	78.2	32.61	8.43	32.69	204	180	P	V	
	5856.8	82.46	-27.84	110.3	74.1	32.62	8.43	32.69	204	180	P	V	
	5875.8	69.45	-35.16	104.61	61.09	32.63	8.43	32.7	204	180	P	V	
	5929.4	56.55	-11.65	68.2	48.1	32.66	8.51	32.72	204	180	P	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT40 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT40 CH 150 5750MHz		11500	47.45	-26.55	74	46.07	40	12.58	51.2	100	0	P	H	
		17250	50.33	-17.87	68.2	45.72	41.1	15.66	52.15	100	0	P	H	
													H	
													H	
			11500	47.44	-26.56	74	46.06	40	12.58	51.2	100	0	P	V
			17250	50.53	-17.67	68.2	45.92	41.1	15.66	52.15	100	0	P	V
														V
802.11ac VHT40 CH 158 5790MHz		11580	47.3	-26.7	74	45.96	39.88	12.66	51.2	100	0	P	H	
		17370	51.09	-17.11	68.2	46.04	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	46.82	-27.18	74	45.48	39.88	12.66	51.2	100	0	P	V
			17370	50.14	-18.06	68.2	45.09	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT40 CH 165 5825MHz		11650	46.74	-27.26	74	45.46	39.75	12.73	51.2	100	0	P	H	
		17475	50.47	-17.73	68.2	45.02	41.71	15.93	52.19	100	0	P	H	
													H	
													H	
			11650	46.94	-27.06	74	45.66	39.75	12.73	51.2	100	0	P	V
			17475	50.54	-17.66	68.2	45.09	41.71	15.93	52.19	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													





**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT50 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT50 CH 151 5755MHz		5637.2	60.18	-8.02	68.2	52.08	32.48	8.23	32.61	198	184	P	H
		5697.4	70.83	-32.45	103.28	62.65	32.51	8.3	32.63	198	184	P	H
		5719.2	78.44	-32.14	110.58	70.25	32.53	8.3	32.64	198	184	P	H
		5724.2	84.22	-36.16	120.38	76	32.53	8.33	32.64	198	184	P	H
		5122	57.04	-16.96	74	49.7	31.94	7.94	32.54	198	184	P	H
		5122	50.65	-3.35	54	43.31	31.94	7.94	32.54	198	184	A	H
		5458	59.98	-14.02	74	51.9	32.34	8.29	32.55	198	184	P	H
		5458	52.41	-1.59	54	44.33	32.34	8.29	32.55	198	184	A	H
	*	5755	117.57	-	-	109.33	32.56	8.33	32.65	198	184	P	H
	*	5755	110.59	-	-	102.35	32.56	8.33	32.65	198	184	A	H
		5854	62.64	-50.44	113.08	54.28	32.62	8.43	32.69	198	184	P	H
		5855.6	58.79	-51.84	110.63	50.43	32.62	8.43	32.69	198	184	P	H
		5886	54.67	-42.36	97.03	46.28	32.63	8.47	32.71	198	184	P	H
		5946.4	55.26	-12.94	68.2	46.81	32.67	8.51	32.73	198	184	P	H
		5648.2	61.84	-6.36	68.2	53.7	32.48	8.27	32.61	209	180	P	V
		5698.4	68.73	-35.29	104.02	60.55	32.51	8.3	32.63	209	180	P	V
		5719.2	85.35	-25.23	110.58	77.16	32.53	8.3	32.64	209	180	P	V
		5724	86.63	-33.29	119.92	78.41	32.53	8.33	32.64	209	180	P	V
		5110	59.41	-14.59	74	52.04	31.94	7.96	32.53	209	180	P	V
		5110	50.17	-3.83	54	42.8	31.94	7.96	32.53	209	180	A	V
		5404	61.7	-12.3	74	53.68	32.28	8.29	32.55	209	180	P	V
		5404	52.22	-1.78	54	44.2	32.28	8.29	32.55	209	180	A	V
	*	5755	118.65	-	-	110.41	32.56	8.33	32.65	209	180	P	V
	*	5755	111.69	-	-	103.45	32.56	8.33	32.65	209	180	A	V
	5853.8	60.88	-52.66	113.54	52.52	32.62	8.43	32.69	209	180	P	V	
	5857.4	62.63	-47.5	110.13	54.27	32.62	8.43	32.69	209	180	P	V	
	5877.6	58.39	-44.88	103.27	50.03	32.63	8.43	32.7	209	180	P	V	
	5948.8	54.32	-13.88	68.2	45.87	32.67	8.51	32.73	209	180	P	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT50 CH 158 5790MHz		5615.8	59.12	-9.08	68.2	51.02	32.47	8.23	32.6	207	182	P	H
		5700	60.86	-44.34	105.2	52.68	32.51	8.3	32.63	207	182	P	H
		5718	66.53	-43.71	110.24	58.34	32.53	8.3	32.64	207	182	P	H
		5723.2	64.59	-53.51	118.1	56.37	32.53	8.33	32.64	207	182	P	H
		5134	56.33	-17.67	74	48.97	31.96	7.94	32.54	207	182	P	H
		5134	47.9	-6.1	54	40.54	31.96	7.94	32.54	207	182	A	H
		5386	58.18	-15.82	74	50.18	32.26	8.29	32.55	207	182	P	H
		5386	51.04	-2.96	54	43.04	32.26	8.29	32.55	207	182	A	H
	*	5790	117.22	-	-	108.96	32.58	8.35	32.67	207	182	P	H
	*	5790	110.89	-	-	102.63	32.58	8.35	32.67	207	182	A	H
		5853	70.69	-44.67	115.36	62.34	32.61	8.43	32.69	207	182	P	H
		5860	65.75	-43.65	109.4	57.4	32.62	8.43	32.7	207	182	P	H
		5880	60.99	-40.5	101.49	52.63	32.63	8.43	32.7	207	182	P	H
		5936.2	54.01	-14.19	68.2	45.57	32.66	8.51	32.73	207	182	P	H
		5608.2	59.98	-8.22	68.2	51.89	32.46	8.23	32.6	205	180	P	V
		5694	63.83	-36.95	100.78	55.65	32.51	8.3	32.63	205	180	P	V
		5716	66.46	-43.22	109.68	58.28	32.52	8.3	32.64	205	180	P	V
		5725	70.64	-51.56	122.2	62.42	32.53	8.33	32.64	205	180	P	V
		5056	58.58	-15.42	74	51.24	31.88	7.99	32.53	205	180	P	V
		5056	49.11	-4.89	54	41.77	31.88	7.99	32.53	205	180	A	V
		5458	61.17	-12.83	74	53.09	32.34	8.29	32.55	205	180	P	V
		5458	52.05	-1.95	54	43.97	32.34	8.29	32.55	205	180	A	V
	*	5790	118.17	-	-	109.91	32.58	8.35	32.67	205	180	P	V
*	5790	111.56	-	-	103.3	32.58	8.35	32.67	205	180	A	V	
	5851.2	68.71	-50.75	119.46	60.36	32.61	8.43	32.69	205	180	P	V	
	5867.6	66.75	-40.52	107.27	58.4	32.62	8.43	32.7	205	180	P	V	
	5878.8	63.31	-39.07	102.38	54.95	32.63	8.43	32.7	205	180	P	V	
	5936	54.7	-13.5	68.2	46.26	32.66	8.51	32.73	205	180	P	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT50 CH 164 5820MHz		5629.2	60.57	-7.63	68.2	52.48	32.47	8.23	32.61	206	183	P	H
		5679.2	58.32	-31.53	89.85	50.17	32.5	8.27	32.62	206	183	P	H
		5705.6	58.55	-48.22	106.77	50.37	32.52	8.3	32.64	206	183	P	H
		5720.8	58.15	-54.47	112.62	49.96	32.53	8.3	32.64	206	183	P	H
		5068	57.24	-16.76	74	49.9	31.88	7.99	32.53	206	183	P	H
		5068	47.41	-6.59	54	40.07	31.88	7.99	32.53	206	183	A	H
		5458	58.47	-15.53	74	50.39	32.34	8.29	32.55	206	183	P	H
		5458	50.13	-3.87	54	42.05	32.34	8.29	32.55	206	183	A	H
	*	5820	116.86	-	-	108.55	32.6	8.39	32.68	206	183	P	H
	*	5820	109.12	-	-	100.81	32.6	8.39	32.68	206	183	A	H
		5850.4	84.24	-37.05	121.29	75.89	32.61	8.43	32.69	206	183	P	H
		5856	79.31	-31.21	110.52	70.95	32.62	8.43	32.69	206	183	P	H
		5876.2	71.45	-32.86	104.31	63.09	32.63	8.43	32.7	206	183	P	H
		5931.4	54.58	-13.62	68.2	46.13	32.66	8.51	32.72	206	183	P	H
		5615.4	59.94	-8.26	68.2	51.85	32.46	8.23	32.6	210	178	P	V
		5688.8	59.62	-37.32	96.94	51.44	32.51	8.3	32.63	210	178	P	V
		5701.8	61.77	-43.93	105.7	53.58	32.52	8.3	32.63	210	178	P	V
		5721.2	60.69	-52.85	113.54	52.5	32.53	8.3	32.64	210	178	P	V
		5044	59.41	-14.59	74	52.09	31.86	7.99	32.53	210	178	P	V
		5044	49.13	-4.87	54	41.81	31.86	7.99	32.53	210	178	A	V
		5380	60.69	-13.31	74	52.69	32.26	8.29	32.55	210	178	P	V
		5380	51.83	-2.17	54	43.83	32.26	8.29	32.55	210	178	A	V
	*	5820	116.89	-	-	108.58	32.6	8.39	32.68	210	178	P	V
	*	5820	110.28	-	-	101.97	32.6	8.39	32.68	210	178	A	V
	5851.6	84	-34.55	118.55	75.65	32.61	8.43	32.69	210	178	P	V	
	5856.2	77.53	-32.93	110.46	69.17	32.62	8.43	32.69	210	178	P	V	
	5875.8	70.89	-33.72	104.61	62.53	32.63	8.43	32.7	210	178	P	V	
	5927.8	55.93	-12.27	68.2	47.48	32.66	8.51	32.72	210	178	P	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT50 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT50 CH 151 5755MHz		11510	47.06	-26.94	74	45.68	40	12.58	51.2	100	0	P	H	
		17265	48.97	-19.23	68.2	44.31	41.15	15.66	52.15	100	0	P	H	
													H	
													H	
			11510	47.01	-26.99	74	45.63	40	12.58	51.2	100	0	P	V
			17265	48.93	-19.27	68.2	44.27	41.15	15.66	52.15	100	0	P	V
														V
802.11ac VHT50 CH 158 5790MHz		11580	46.14	-27.86	74	44.8	39.88	12.66	51.2	100	0	P	H	
		17370	49.73	-18.47	68.2	44.68	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	46.06	-27.94	74	44.72	39.88	12.66	51.2	100	0	P	V
			17370	49.45	-18.75	68.2	44.4	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT50 CH 164 5820MHz		11640	46.49	-27.51	74	45.21	39.75	12.73	51.2	100	0	P	H	
		17460	50.99	-17.21	68.2	45.64	41.66	15.88	52.19	100	0	P	H	
													H	
													H	
			11640	47.91	-26.09	74	46.63	39.75	12.73	51.2	100	0	P	V
			17460	50.55	-17.65	68.2	45.2	41.66	15.88	52.19	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT60 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT60 CH 152 5760MHz		5650	61.34	-6.86	68.2	53.19	32.49	8.27	32.61	206	176	P	H
		5693.4	73.79	-26.54	100.33	65.61	32.51	8.3	32.63	206	176	P	H
		5718.4	82.38	-27.97	110.35	74.19	32.53	8.3	32.64	206	176	P	H
		5723.2	85.32	-32.78	118.1	77.1	32.53	8.33	32.64	206	176	P	H
		5104	56.29	-17.71	74	48.94	31.92	7.96	32.53	206	176	P	H
		5104	50.78	-3.22	54	43.43	31.92	7.96	32.53	206	176	A	H
		5422	59.39	-14.61	74	51.35	32.3	8.29	32.55	206	176	P	H
		5422	53.54	-0.46	54	45.5	32.3	8.29	32.55	206	176	A	H
	*	5760	117.13	-	-	108.9	32.56	8.33	32.66	206	176	P	H
	*	5760	110.46	-	-	102.23	32.56	8.33	32.66	206	176	A	H
		5852.2	62.72	-54.46	117.18	54.37	32.61	8.43	32.69	206	176	P	H
		5857.4	63.98	-46.15	110.13	55.62	32.62	8.43	32.69	206	176	P	H
		5877.8	59.72	-43.4	103.12	51.36	32.63	8.43	32.7	206	176	P	H
		5937.8	53.77	-14.43	68.2	45.33	32.66	8.51	32.73	206	176	P	H
		5649.6	62.5	-5.7	68.2	54.35	32.49	8.27	32.61	188	181	P	V
		5694.4	76.04	-25.03	101.07	67.86	32.51	8.3	32.63	188	181	P	V
		5718.4	82.89	-27.46	110.35	74.7	32.53	8.3	32.64	188	181	P	V
		5724.2	88.26	-32.12	120.38	80.04	32.53	8.33	32.64	188	181	P	V
		5002	58.91	-15.09	74	51.62	31.8	8.02	32.53	188	181	P	V
		5002	48.85	-5.15	54	41.56	31.8	8.02	32.53	188	181	A	V
		5416	61.56	-12.44	74	53.52	32.3	8.29	32.55	188	181	P	V
		5416	52.31	-1.69	54	44.27	32.3	8.29	32.55	188	181	A	V
	*	5760	117.46	-	-	109.23	32.56	8.33	32.66	188	181	P	V
	*	5760	110.8	-	-	102.57	32.56	8.33	32.66	188	181	A	V
		5850.8	66.45	-53.93	120.38	58.1	32.61	8.43	32.69	188	181	P	V
		5855.4	65.61	-45.08	110.69	57.25	32.62	8.43	32.69	188	181	P	V
		5875.8	64.79	-39.82	104.61	56.43	32.63	8.43	32.7	188	181	P	V
		5937.8	54.85	-13.35	68.2	46.41	32.66	8.51	32.73	188	181	P	V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT60 CH 158 5790MHz		5628.8	59.73	-8.47	68.2	51.64	32.47	8.23	32.61	209	179	P	H
		5697.4	65.02	-38.26	103.28	56.84	32.51	8.3	32.63	209	179	P	H
		5715.6	67.2	-42.37	109.57	59.02	32.52	8.3	32.64	209	179	P	H
		5724.99	67.84	-54.34	122.18	59.62	32.53	8.33	32.64	209	179	P	H
		5140	57.11	-16.89	74	49.73	31.98	7.94	32.54	209	179	P	H
		5140	50.05	-3.95	54	42.67	31.98	7.94	32.54	209	179	A	H
		5446	60.3	-13.7	74	52.22	32.34	8.29	32.55	209	179	P	H
		5446	52.89	-1.11	54	44.81	32.34	8.29	32.55	209	179	A	H
	*	5790	115.4	-	-	107.14	32.58	8.35	32.67	209	179	P	H
	*	5790	109.16	-	-	100.9	32.58	8.35	32.67	209	179	A	H
		5854.6	78	-33.71	111.71	69.64	32.62	8.43	32.69	209	179	P	H
		5857	75.87	-34.37	110.24	67.51	32.62	8.43	32.69	209	179	P	H
		5876	64.26	-40.2	104.46	55.9	32.63	8.43	32.7	209	179	P	H
		5942.6	55.03	-13.17	68.2	46.58	32.67	8.51	32.73	209	179	P	H
		5643.4	60.45	-7.75	68.2	52.31	32.48	8.27	32.61	201	182	P	V
		5698.6	63.64	-40.53	104.17	55.46	32.51	8.3	32.63	201	182	P	V
		5715	70.24	-39.16	109.4	62.06	32.52	8.3	32.64	201	182	P	V
		5724.8	69.65	-52.09	121.74	61.43	32.53	8.33	32.64	201	182	P	V
		5146	58.35	-15.65	74	50.97	31.98	7.94	32.54	201	182	P	V
		5146	49.86	-4.14	54	42.48	31.98	7.94	32.54	201	182	A	V
		5416	61.9	-12.1	74	53.86	32.3	8.29	32.55	201	182	P	V
		5416	52.04	-1.96	54	44	32.3	8.29	32.55	201	182	A	V
	*	5790	117.58	-	-	109.32	32.58	8.35	32.67	201	182	P	V
	*	5790	110.47	-	-	102.21	32.58	8.35	32.67	201	182	A	V
	5854.2	75.48	-37.14	112.62	67.12	32.62	8.43	32.69	201	182	P	V	
	5856.2	72.19	-38.27	110.46	63.83	32.62	8.43	32.69	201	182	P	V	
	5877	66.78	-36.93	103.71	58.42	32.63	8.43	32.7	201	182	P	V	
	5936.6	57.29	-10.91	68.2	48.85	32.66	8.51	32.73	201	182	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT60 CH 163 5815MHz		5642.6	60.54	-7.66	68.2	52.4	32.48	8.27	32.61	208	180	P	H	
		5660.4	58.56	-17.36	75.92	50.42	32.49	8.27	32.62	208	180	P	H	
		5712.2	61.56	-47.06	108.62	53.38	32.52	8.3	32.64	208	180	P	H	
		5725	62.9	-59.3	122.2	54.68	32.53	8.33	32.64	208	180	P	H	
		5104	56.78	-17.22	74	49.43	31.92	7.96	32.53	208	180	P	H	
		5104	50.01	-3.99	54	42.66	31.92	7.96	32.53	208	180	A	H	
		5452	60.53	-13.47	74	52.45	32.34	8.29	32.55	208	180	P	H	
		5452	52.44	-1.56	54	44.36	32.34	8.29	32.55	208	180	A	H	
		*	5815	114.92	-	-	106.62	32.59	8.39	32.68	208	180	P	H
		*	5815	108.73	-	-	100.43	32.59	8.39	32.68	208	180	A	H
			5854.2	84.02	-28.6	112.62	75.66	32.62	8.43	32.69	208	180	P	H
			5855.2	81.75	-28.99	110.74	73.39	32.62	8.43	32.69	208	180	P	H
			5877.2	75.28	-28.29	103.57	66.92	32.63	8.43	32.7	208	180	P	H
			5928	58.45	-9.75	68.2	50	32.66	8.51	32.72	208	180	P	H
			5622.8	60.03	-8.17	68.2	51.93	32.47	8.23	32.6	205	183	P	V
			5696.8	62.83	-40.01	102.84	54.65	32.51	8.3	32.63	205	183	P	V
			5700.6	65.61	-39.76	105.37	57.42	32.52	8.3	32.63	205	183	P	V
			5720	64.41	-46.39	110.8	56.22	32.53	8.3	32.64	205	183	P	V
			5020	59.19	-14.81	74	51.88	31.82	8.02	32.53	205	183	P	V
			5020	49.43	-4.57	54	42.12	31.82	8.02	32.53	205	183	A	V
			5404	60.93	-13.07	74	52.91	32.28	8.29	32.55	205	183	P	V
			5404	52.06	-1.94	54	44.04	32.28	8.29	32.55	205	183	A	V
		*	5815	116.78	-	-	108.48	32.59	8.39	32.68	205	183	P	V
		*	5815	109.99	-	-	101.69	32.59	8.39	32.68	205	183	A	V
		5851	85.21	-34.71	119.92	76.86	32.61	8.43	32.69	205	183	P	V	
		5856.8	81.87	-28.43	110.3	73.51	32.62	8.43	32.69	205	183	P	V	
		5876	75.36	-29.1	104.46	67	32.63	8.43	32.7	205	183	P	V	
		5925.4	62.42	-5.78	68.2	53.97	32.66	8.51	32.72	205	183	P	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT60 (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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT60 CH 152 5760MHz		11520	46.92	-27.08	74	45.53	39.97	12.62	51.2	100	0	P	H	
		17280	49.24	-18.96	68.2	44.5	41.19	15.7	52.15	100	0	P	H	
													H	
													H	
			11520	47.44	-26.56	74	46.05	39.97	12.62	51.2	100	0	P	V
			17280	50.59	-17.61	68.2	45.85	41.19	15.7	52.15	100	0	P	V
														V
802.11ac VHT60 CH 158 5790MHz		11580	46.78	-27.22	74	45.44	39.88	12.66	51.2	100	0	P	H	
		17370	50.29	-17.91	68.2	45.24	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	46.4	-27.6	74	45.06	39.88	12.66	51.2	100	0	P	V
			17370	50.37	-17.83	68.2	45.32	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT60 CH 163 5815MHz		11630	47.74	-26.26	74	46.46	39.78	12.7	51.2	100	0	P	H	
		17445	51.23	-16.97	68.2	45.92	41.61	15.88	52.18	100	0	P	H	
													H	
													H	
			11630	46.88	-27.12	74	45.6	39.78	12.7	51.2	100	0	P	V
			17445	51.61	-16.59	68.2	46.3	41.61	15.88	52.18	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													





**Band 4 5725~5850MHz**  
**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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5648.6	62.32	-5.88	68.2	54.18	32.48	8.27	32.61	208	178	P	H
		5699.4	72.87	-31.89	104.76	64.69	32.51	8.3	32.63	208	178	P	H
		5717.2	82.75	-27.27	110.02	74.57	32.52	8.3	32.64	208	178	P	H
		5724	83.19	-36.73	119.92	74.97	32.53	8.33	32.64	208	178	P	H
		5146	55.84	-18.16	74	48.46	31.98	7.94	32.54	208	178	P	H
		5146	50.91	-3.09	54	43.53	31.98	7.94	32.54	208	178	A	H
		5446	59.3	-14.7	74	51.22	32.34	8.29	32.55	208	178	P	H
		5446	52.97	-1.03	54	44.89	32.34	8.29	32.55	208	178	A	H
	*	5770	115.66	-	-	107.4	32.57	8.35	32.66	208	178	P	H
	*	5770	109.32	-	-	101.06	32.57	8.35	32.66	208	178	A	H
		5851.2	77.01	-42.45	119.46	68.66	32.61	8.43	32.69	208	178	P	H
		5858.4	73.36	-36.49	109.85	65.01	32.62	8.43	32.7	208	178	P	H
<b>802.11ac</b>		5877.8	65.37	-37.75	103.12	57.01	32.63	8.43	32.7	208	178	P	H
<b>VHT80</b>		5930.8	58.04	-10.16	68.2	49.59	32.66	8.51	32.72	208	178	P	H
<b>CH 154</b>		5613.4	64.08	-4.12	68.2	55.99	32.46	8.23	32.6	200	179	P	V
<b>5770MHz</b>		5695	75.32	-26.19	101.51	67.14	32.51	8.3	32.63	200	179	P	V
		5716.4	82.75	-27.04	109.79	74.57	32.52	8.3	32.64	200	179	P	V
		5720.4	84.39	-27.32	111.71	76.2	32.53	8.3	32.64	200	179	P	V
		5104	58.75	-15.25	74	51.4	31.92	7.96	32.53	200	179	P	V
		5104	51.21	-2.79	54	43.86	31.92	7.96	32.53	200	179	A	V
		5380	61.35	-12.65	74	53.35	32.26	8.29	32.55	200	179	P	V
		5380	53.1	-0.9	54	45.1	32.26	8.29	32.55	200	179	A	V
	*	5770	117.48	-	-	109.22	32.57	8.35	32.66	200	179	P	V
	*	5770	110.56	-	-	102.3	32.57	8.35	32.66	200	179	A	V
		5852.4	73.58	-43.15	116.73	65.23	32.61	8.43	32.69	200	179	P	V
		5860.4	74.97	-34.32	109.29	66.62	32.62	8.43	32.7	200	179	P	V
		5878.8	68.64	-33.74	102.38	60.28	32.63	8.43	32.7	200	179	P	V
		5925.6	60.17	-8.03	68.2	51.72	32.66	8.51	32.72	200	179	P	V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT80 CH 158 5790MHz		5646	61.17	-7.03	68.2	53.03	32.48	8.27	32.61	205	183	P	H
		5696.4	71.34	-31.21	102.55	63.16	32.51	8.3	32.63	205	183	P	H
		5720	74.27	-36.53	110.8	66.08	32.53	8.3	32.64	205	183	P	H
		5723	74.58	-43.06	117.64	66.36	32.53	8.33	32.64	205	183	P	H
		5098	56.44	-17.56	74	49.09	31.92	7.96	32.53	205	183	P	H
		5098	50.76	-3.24	54	43.41	31.92	7.96	32.53	205	183	A	H
		5446	59.25	-14.75	74	51.17	32.34	8.29	32.55	205	183	P	H
		5446	53.25	-0.75	54	45.17	32.34	8.29	32.55	205	183	A	H
	*	5790	115.58	-	-	107.32	32.58	8.35	32.67	205	183	P	H
	*	5790	109.29	-	-	101.03	32.58	8.35	32.67	205	183	A	H
		5853.6	79.21	-34.78	113.99	70.85	32.62	8.43	32.69	205	183	P	H
		5856.8	78.09	-32.21	110.3	69.73	32.62	8.43	32.69	205	183	P	H
		5876.4	73.64	-30.52	104.16	65.28	32.63	8.43	32.7	205	183	P	H
		5928.8	61.08	-7.12	68.2	52.63	32.66	8.51	32.72	205	183	P	H
		5647.2	63.1	-5.1	68.2	54.96	32.48	8.27	32.61	205	180	P	V
		5700	73.18	-32.02	105.2	65	32.51	8.3	32.63	205	180	P	V
		5719	78.34	-32.18	110.52	70.15	32.53	8.3	32.64	205	180	P	V
		5724.99	75.73	-46.45	122.18	67.51	32.53	8.33	32.64	205	180	P	V
		5110	58.83	-15.17	74	51.46	31.94	7.96	32.53	205	180	P	V
		5110	52.37	-1.63	54	45	31.94	7.96	32.53	205	180	A	V
		5458	61.42	-12.58	74	53.34	32.34	8.29	32.55	205	180	P	V
		5458	53.84	-0.16	54	45.76	32.34	8.29	32.55	205	180	A	V
	*	5790	117.08	-	-	108.82	32.58	8.35	32.67	205	180	P	V
	*	5790	110.11	-	-	101.85	32.58	8.35	32.67	205	180	A	V
	5851.4	78.4	-40.61	119.01	70.05	32.61	8.43	32.69	205	180	P	V	
	5855	77.89	-32.91	110.8	69.53	32.62	8.43	32.69	205	180	P	V	
	5880	74.13	-27.36	101.49	65.77	32.63	8.43	32.7	205	180	P	V	
	5931.4	62.19	-6.01	68.2	53.74	32.66	8.51	32.72	205	180	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5617	59.75	-8.45	68.2	51.65	32.47	8.23	32.6	204	181	P	H
		5681.4	65.55	-25.92	91.47	57.41	32.5	8.27	32.63	204	181	P	H
		5716.2	71.66	-38.08	109.74	63.48	32.52	8.3	32.64	204	181	P	H
		5724.6	71.97	-49.32	121.29	63.75	32.53	8.33	32.64	204	181	P	H
		5146	58.74	-15.26	74	51.36	31.98	7.94	32.54	204	181	P	H
		5146	53.38	-0.62	54	46	31.98	7.94	32.54	204	181	A	H
		5386	59.3	-14.7	74	51.3	32.26	8.29	32.55	169	180	P	H
		5386	52.75	-1.25	54	44.75	32.26	8.29	32.55	169	180	A	H
	*	5805	115.58	-	-	107.27	32.59	8.39	32.67	204	181	P	H
	*	5805	110.02	-	-	101.71	32.59	8.39	32.67	204	181	A	H
		5850.4	82.1	-39.19	121.29	73.75	32.61	8.43	32.69	204	181	P	H
		5855	82.86	-27.94	110.8	74.5	32.62	8.43	32.69	204	181	P	H
802.11ac		5881.2	78.41	-22.18	100.59	70.05	32.63	8.43	32.7	204	181	P	H
VHT80		5927	62.42	-5.78	68.2	53.97	32.66	8.51	32.72	204	181	P	H
CH 161		5648.6	62.08	-6.12	68.2	53.94	32.48	8.27	32.61	207	182	P	V
5805MHz		5696.8	69.47	-33.37	102.84	61.29	32.51	8.3	32.63	207	182	P	V
		5718.4	77.49	-32.86	110.35	69.3	32.53	8.3	32.64	207	182	P	V
		5721	76.69	-36.39	113.08	68.5	32.53	8.3	32.64	207	182	P	V
		5086	60.73	-13.27	74	53.4	31.9	7.96	32.53	207	182	P	V
		5086	50.19	-3.81	54	42.86	31.9	7.96	32.53	207	182	A	V
		5446	60.69	-13.31	74	52.61	32.34	8.29	32.55	207	182	P	V
		5446	53.41	-0.59	54	45.33	32.34	8.29	32.55	207	182	A	V
	*	5805	116.81	-	-	108.5	32.59	8.39	32.67	207	182	P	V
	*	5805	110.65	-	-	102.34	32.59	8.39	32.67	207	182	A	V
		5850.01	85.16	-37.02	122.18	76.81	32.61	8.43	32.69	207	182	P	V
		5856.6	83.98	-26.37	110.35	75.62	32.62	8.43	32.69	207	182	P	V
		5881	77	-23.74	100.74	68.64	32.63	8.43	32.7	207	182	P	V
		5925.8	65.78	-2.42	68.2	57.33	32.66	8.51	32.72	207	182	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**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 )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT80 CH 154 5770MHz		11540	46.56	-27.44	74	45.2	39.94	12.62	51.2	100	0	P	H	
		17310	50.46	-17.74	68.2	45.68	41.24	15.7	52.16	100	0	P	H	
													H	
													H	
			11540	46.79	-27.21	74	45.43	39.94	12.62	51.2	100	0	P	V
			17310	49.81	-18.39	68.2	45.03	41.24	15.7	52.16	100	0	P	V
														V
802.11ac VHT80 CH 158 5790MHz		11580	48	-26	74	46.66	39.88	12.66	51.2	100	0	P	H	
		17370	50.24	-17.96	68.2	45.19	41.43	15.79	52.17	100	0	P	H	
													H	
													H	
			11580	47.04	-26.96	74	45.7	39.88	12.66	51.2	100	0	P	V
			17370	50.91	-17.29	68.2	45.86	41.43	15.79	52.17	100	0	P	V
														V
802.11ac VHT80 CH 161 5805MHz		11610	46.7	-27.3	74	45.39	39.81	12.7	51.2	100	0	P	H	
		17415	50.15	-18.05	68.2	44.92	41.57	15.84	52.18	100	0	P	H	
													H	
													H	
			11610	47.43	-26.57	74	46.12	39.81	12.7	51.2	100	0	P	V
			17415	50.9	-17.3	68.2	45.67	41.57	15.84	52.18	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
5GHz 802.11ac VHT80 LF		139.89	35.84	-7.66	43.5	49.27	18	1.33	32.76			P	H	
		180.12	34.15	-9.35	43.5	49.92	15.5	1.48	32.75			P	H	
		204.96	34.21	-9.29	43.5	49.2	16.14	1.62	32.75			P	H	
		374.9	43.01	-2.99	46	51.82	21.81	2.13	32.75	112	68	QP	H	
		374.9	45.61	-0.39	46	54.42	21.81	2.13	32.75	112	68	P	H	
		400	43.33	-2.67	46	51.56	22.4	2.13	32.76	100	36	QP	H	
		400	44.26	-1.74	46	52.49	22.4	2.13	32.76	100	36	P	H	
		625	45.63	-0.37	46	50.26	25.75	2.62	33	100	38	QP	H	
		625	46.26	0.26	46	50.89	25.75	2.62	33	100	27	P	H	
														H
														H
														H
			39.99	36.47	-3.53	40	48.07	20.5	0.65	32.75			P	V
			86.43	25.15	-14.85	40	42.15	14.62	1.14	32.76			P	V
			204.96	35.39	-8.11	43.5	50.38	16.14	1.62	32.75			P	V
			400.1	42.92	-3.08	46	51.13	22.42	2.13	32.76			P	V
			625	43	-3	46	47.63	25.75	2.62	33	235	227	QP	V
			625	43.42	-2.58	46	48.05	25.75	2.62	33	235	227	P	V
			874.7	40.35	-5.65	46	40.93	28.7	3.16	32.44			P	V
														V
													V	
													V	
													V	
													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	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =  
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

- Level(dBμV/m)  
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
- Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

- Level(dBμV/m)  
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
- Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

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



## Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Tsung Lee, Stan Hsieh, Kyle Chuang	Temperature :	22~24°C
		Relative Humidity :	46~48%

### Note symbol

-L	Low channel location
-R	High channel location





**Band 4 - 5725~5850MHz**  
**WIFI 802.11ac VHT10 (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT CH147 5735MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH10-4Y          Condition : PEAK_BE(84)_16-24 3m HORN 91200-HF HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 22</p>	<p>Site : 03CH10-4Y          Condition : PEAK(UNB) 3m HORN 91200-HF HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 22</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT CH147 5735MHz	
1+2	Vertical	Fundamental
Peak	<p>           Date: 2017.01.20            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH10-HY            Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF VERTICAL            Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Project : Peak            Mode : 6N2220-01            : 22         </p>	<p>           Date: 2017.01.20            PEAK(UN)I         </p> <p>           Site : 03CH10-HY            Condition : PEAK(UN)I 3m HORN 9120D-HF VERTICAL            Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Project : Peak            Mode : 6N2220-01            : 22         </p>

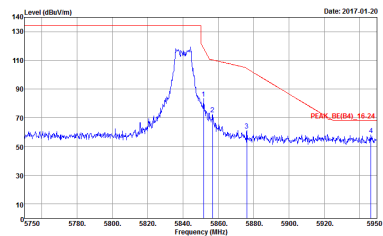
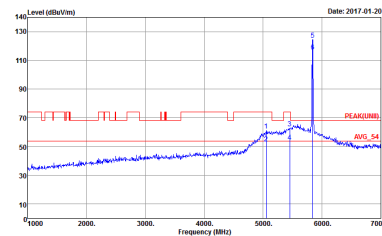


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH158 5790MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>	Left blank

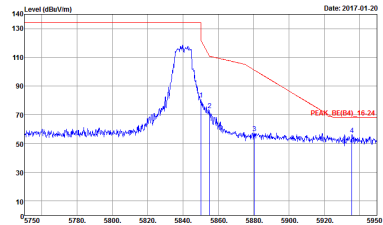
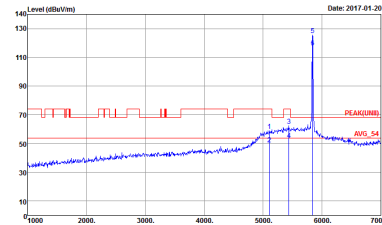


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 23</p>	Left blank



<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT10 CH168 5840MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH10-HY          Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL          Detector : Peak          Project : 6N2220-01          Mode : 24</p>	 <p>Site : 03CH10-HY          Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL          Detector : Peak          Project : 6N2220-01          Mode : 24</p>



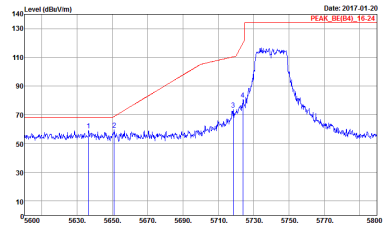
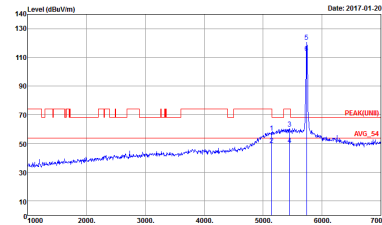
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH168 5840MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH10-HY          Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 24</p>	 <p>Site : 03CH10-HY          Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 24</p>



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)**

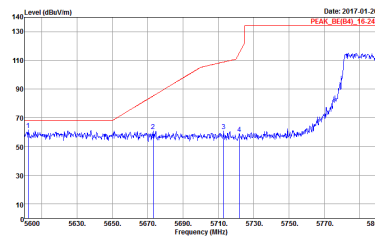
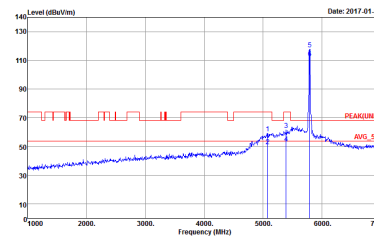
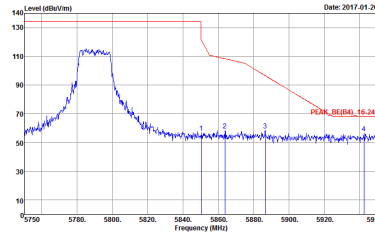
<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH148 5740MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>           Site : 03CH10-HY            Condition : PEAK_8E(84)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : GN2220-01            Mode : ZS         </p>	<p>           Site : 03CH10-HY            Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : GN2220-01            Mode : ZS         </p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH148 5740MHz	
1+2	Vertical	Fundamental
<p>Peak Avg.</p>	 <p>Site : 03CH10-HY Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 25</p>	 <p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 25</p>



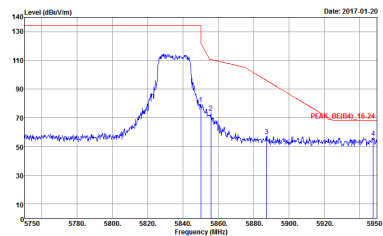
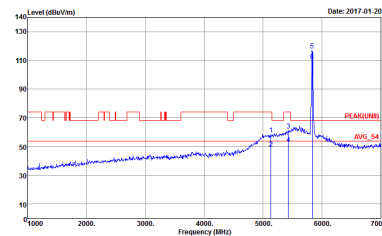


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH158 5790MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2017.01.20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 26</p>	 <p>Date: 2017.01.20 PEAK(BE)_AVI_54</p> <p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 26</p>
<p><b>Peak</b></p>	 <p>Date: 2017.01.20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 26</p>	<p><b>Left blank</b></p>

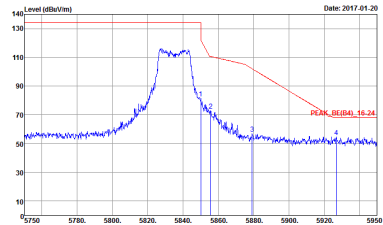
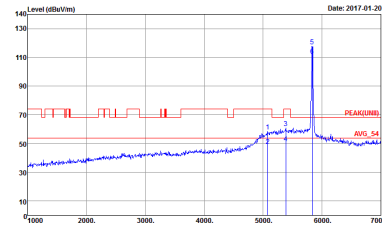


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 26</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 26</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 26</p>	Left blank



<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH167 5835MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>           Site : 03CH10-HY            Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 27         </p>	 <p>           Site : 03CH10-HY            Condition : PEAK(LINB) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 27         </p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH167 5835MHz	
1+2	Vertical	Fundamental
<p>Peak Avg.</p>	 <p>Site : 03CH10-HY          Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 27</p>	 <p>Site : 03CH10-HY          Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 6N2220-01          Mode : 27</p>



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT30 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	<p>Date: 2017-01-20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 28</p>	<p>Date: 2017-01-20 PEAK(LINE) AVG_54</p> <p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 28</p>
Peak	<p>Date: 2017-01-20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 28</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 28</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINB) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 28</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 28</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH158 5790MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 29</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH166 5830MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 2017-01-20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 30</p>	<p>Date: 2017-01-20 PEAK(UNII)</p> <p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 30</p>
<p><b>Peak</b></p>	<p>Date: 2017-01-20 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 30</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH166 5830MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 30</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 30</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 30</p>	Left blank



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH150 5750MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 31</p>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 31</p>
Peak	<p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 31</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH150 5750MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 31</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 31</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 31</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH158 5790MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>	<p>Site : 03CH10-HY            Condition : PEAK(LIN)I 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>	<p>Site : 03CH10-HY            Condition : PEAK(LIN) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 32</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	<p>Date: 2017.01.21 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 33</p>	<p>Date: 2017.01.21 PEAK(UNID)_AVL_54</p> <p>Site : 03CH10-HY Condition : PEAK(UNID) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 33</p>
Peak	<p>Date: 2017.01.21 PEAK_BE(B4)_16-24</p> <p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6N2220-01 Mode : 33</p>	Left blank

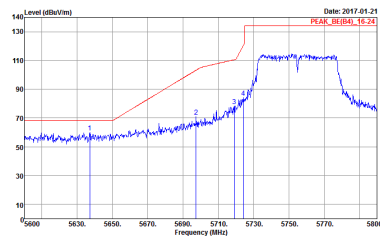
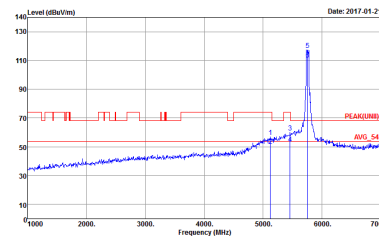
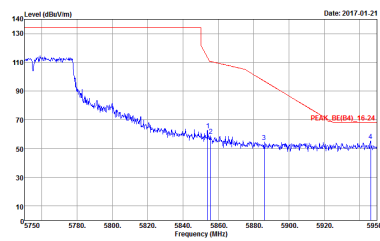


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 33</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 33</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 33</p>	Left blank

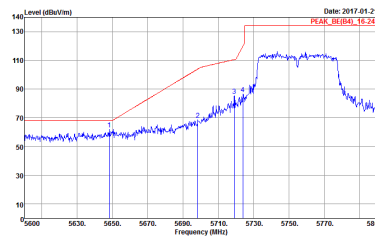
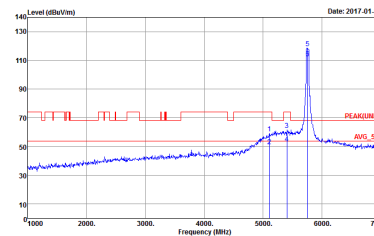
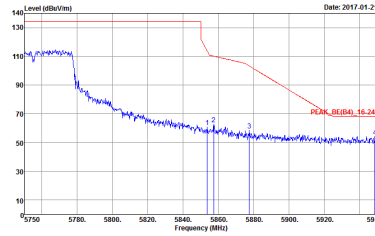




**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT50 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>	 <p>Site : 03CH10-HY            Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>
Peak	 <p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH151 5755MHz	
1+2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>	 <p>Site : 03CH10-HY            Condition : PEAK(LIN) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>
<p><b>Peak</b></p>	 <p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 34</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH158 5790MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 35</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH164 5820MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 36</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 36</p>
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 36</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH164 5820MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 36</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 36</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : GN2220-01            Mode : 36</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT60 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH152 5760MHz	
1+2	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 37</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 37</p>
<b>Peak</b>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 37</p>	<b>Left blank</b>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH152 5760MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 37</p>	<p>Site : 03CH10-HY            Condition : PEAK(U152) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 37</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 37</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH158 5790MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>	<p>Site : 03CH10-HY            Condition : PEAK(U15) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINB) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 38</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH163 5815MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 39</p>	<p>Site : 03CH10-HY            Condition : PEAK(FUNB) 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 39</p>
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 6N2220-01            Mode : 39</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH163 5815MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 39</p>	<p>Site : 03CH10-HY            Condition : PEAK(LINB) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 39</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 39</p>	Left blank



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH154 5770MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : GN2220-01 Mode : 40</p>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : GN2220-01 Mode : 40</p>
<p><b>Peak</b></p>	<p>Site : 03CH10-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : GN2220-01 Mode : 40</p>	<p align="center"><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH154 5770MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 40</p>	<p>Site : 03CH10-HY            Condition : PEAK(LNIII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 40</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 40</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH158 5790MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH158 5790MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 41</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH161 5805MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>
<p><b>Peak</b></p>	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH161 5805MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>
Peak	<p>Site : 03CH10-HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 42</p>	Left blank



**Band 4 - 5725~5850MHz**  
**WIFI 802.11ac VHT10 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT CH147 5735MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH10-4HY          Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL          Detector : Peak          Project : 6N2220-01          Mode : 22</p>	<p>Site : 03CH10-4HY          Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL          Detector : Peak          Project : 6N2220-01          Mode : 22</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT10 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 23</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 23</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT10 CH168 5840MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL            Detector : Peak            Project : 6N2220-01            Mode : 24</p>	<p>Site : 03CH10-HY            Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL            Detector : Peak            Project : 6N2220-01            Mode : 24</p>



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH148 5740MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH10-HY Condition : PFAK(LINE1) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : Z5</p>	<p>Site : 03CH10-HY Condition : PFAK(LINE1) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : Z5</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 26</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 26</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH167 5835MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 27</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 27</p>





Band 4 5725~5850MHz
WIFI 802.11ac VHT30 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot of Level (dBuV/m) vs Frequency (MHz) with peak and average values indicated. Includes metadata like Site, Condition, Detector, Project, and Mode.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT30 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 29</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 29</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT30 CH166 5830MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 30</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 30</p>



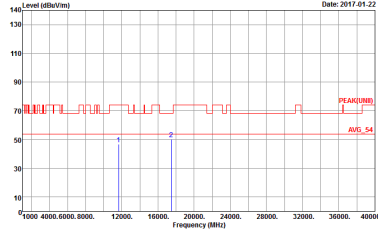
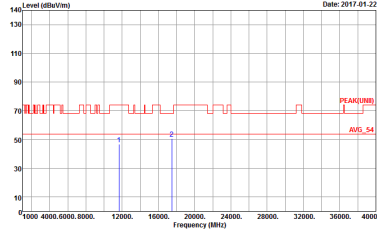
**Band 4 5725~5850MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH150 5750MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH10-HY Condition : PEAR(LINE1) 3m HORN 91200-4HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 31</p>	<p>Site : 03CH10-HY Condition : PEAR(LINE1) 3m HORN 91200-4HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 31</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 32</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 32</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	 <p>Site : 03CH10-HY          Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL          Detector : Peak          Project : 6N2220-01          Mode : 33</p>	 <p>Site : 03CH10-HY          Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL          Detector : Peak          Project : 6N2220-01          Mode : 33</p>



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT50 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT50 CH151 5755MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-4HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 34</p>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-4HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 34</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT50 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 35</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 35</p>





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT50 CH164 5820MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 36</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 36</p>



Band 4 5725~5850MHz
WIFI 802.11ac VHT60 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot showing Level (dBuV/m) vs Frequency (MHz) with Peak and Avg. markers. Includes metadata like Site, Condition, Detector, Project, and Mode.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT60 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 38</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 38</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT60 CH163 5815MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 39</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 39</p>



**Band 4 5725~5850MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH154 5770MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-4F HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 40</p>	<p>Site : 03CH10-HY Condition : PEAK(LINE) 3m HORN 9120D-4F VERTICAL Detector : Peak Project : 6N2220-01 Mode : 40</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH158 5790MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 41</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 41</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH161 5805MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 42</p>	<p>Site : 03CH10-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 42</p>



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

<b>WIFI</b>	<b>5GHz 5725-5850MHz</b>	
<b>ANT</b>	<b>802.11ac VHT80 LF</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>QP / Peak</b>	<p>Site : 03CH10-4Y Condition : QP 3m BE-LOG 6111D-LF HORIZONTAL Detector : Peak Project : 6N2220-01 Mode : 43</p>	<p>Site : 03CH10-4Y Condition : QP 3m BE-LOG 6111D-LF VERTICAL Detector : Peak Project : 6N2220-01 Mode : 43</p>





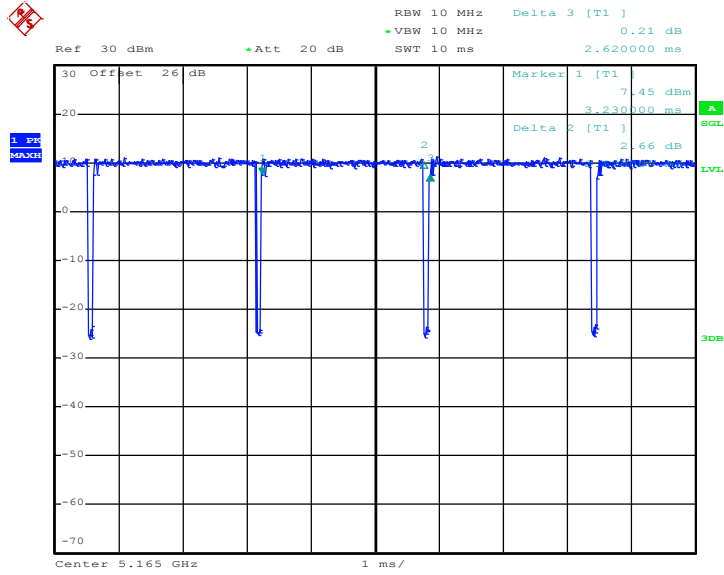
## Appendix E Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11ac VHT10	96.18	2520	0.396825397	1kHz
2	802.11ac VHT10	96.18	2520	0.396825397	1kHz
1	802.11ac VHT20	94.776	1270	0.787401575	1kHz
2	802.11ac VHT20	94.776	1270	0.787401575	1kHz
1	802.11ac VHT30	92.31	840	1.190476190	3kHz
2	802.11ac VHT30	92.31	840	1.190476190	3kHz
1	802.11ac VHT40	89.855	620	1.612903226	3kHz
2	802.11ac VHT40	88.732	630	1.587301587	3kHz
1	802.11ac VHT50	87.931	510	1.960784314	3kHz
2	802.11ac VHT50	87.931	510	1.960784314	3kHz
1	802.11ac VHT60	85.979	417	2.398081535	3kHz
2	802.11ac VHT60	86.667	416	2.403846154	3kHz
1	802.11ac VHT80	82.292	316	3.164556962	10kHz
2	802.11ac VHT80	81.25	312	3.205128205	10kHz



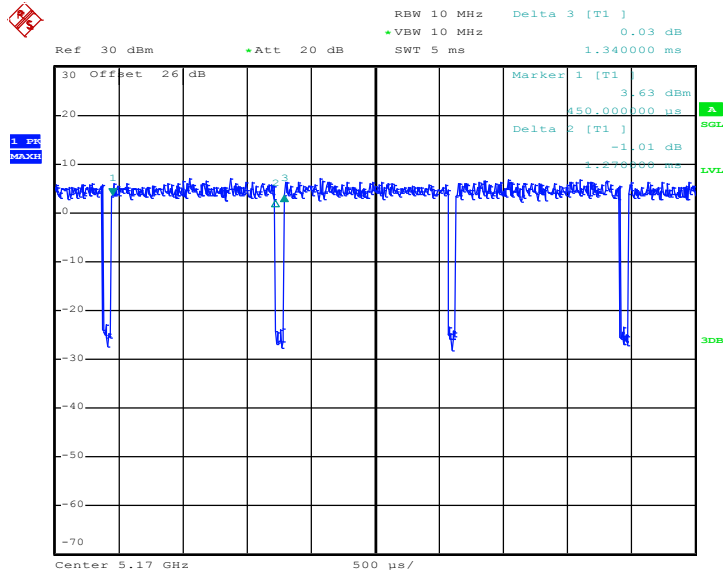
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802.11ac VHT10



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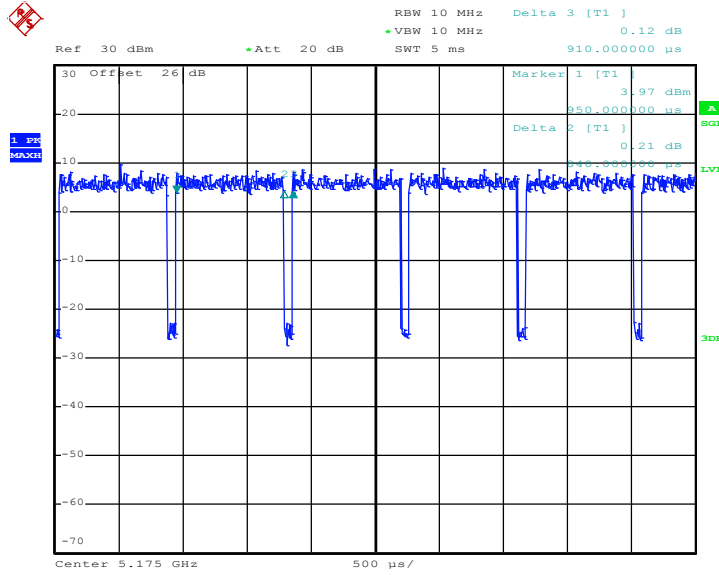
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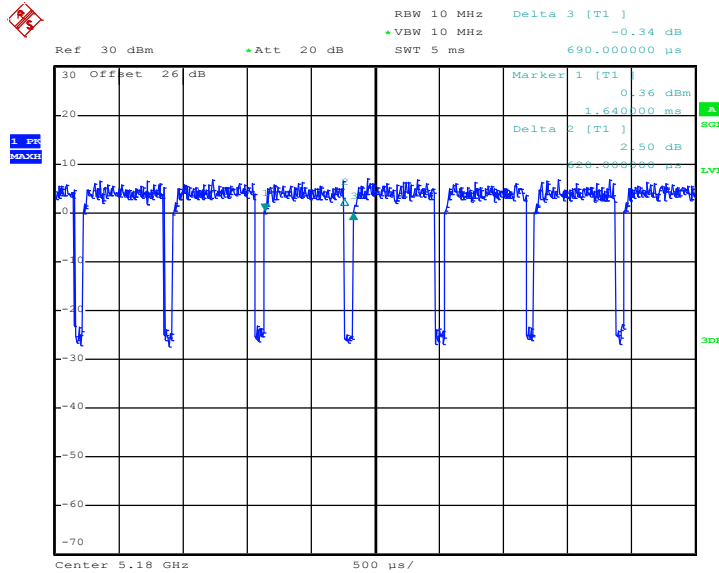


802.11ac VHT30



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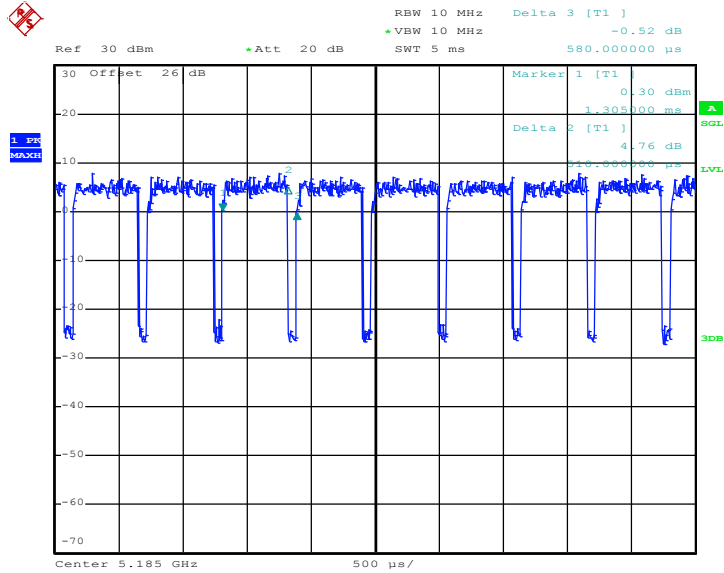
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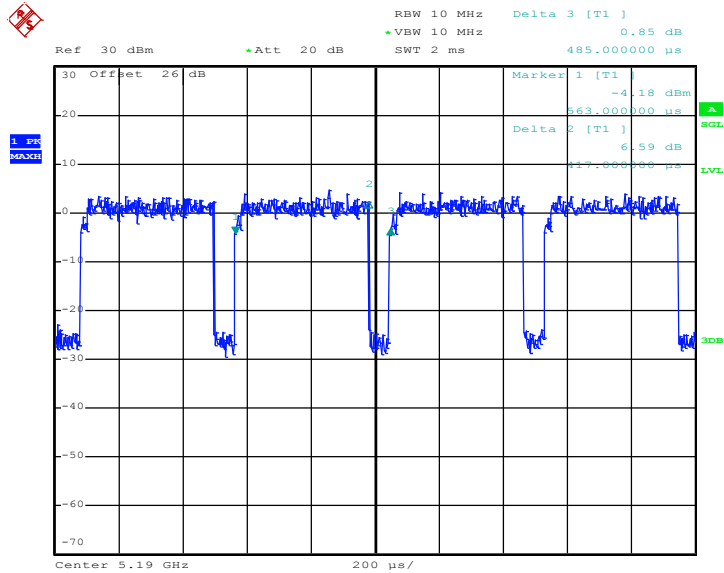


802.11ac VHT50



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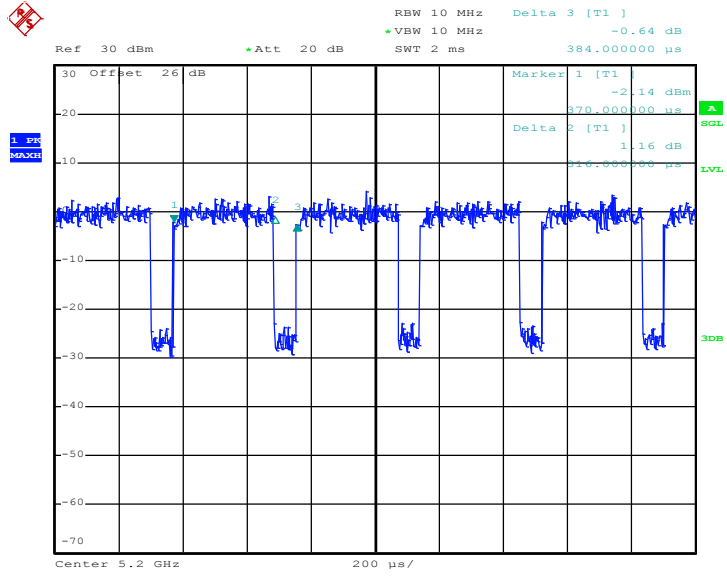
802.11ac VHT60



Date: 18.JAN.2017 07:33:33



802.11ac VHT80

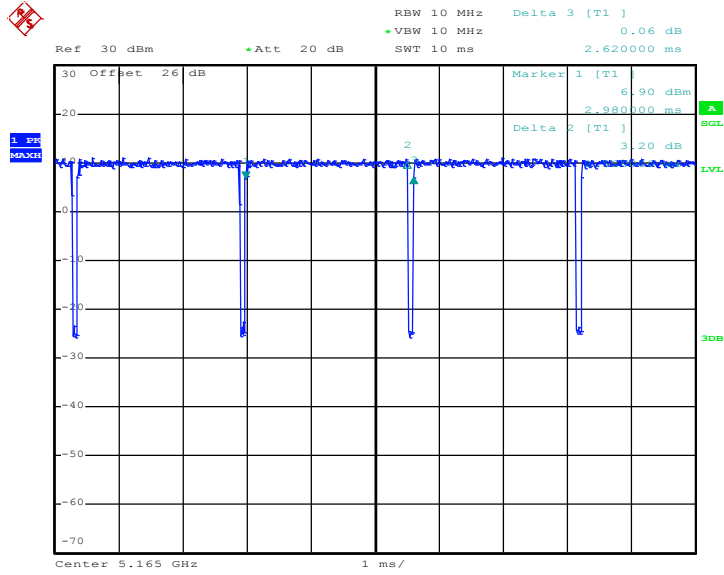


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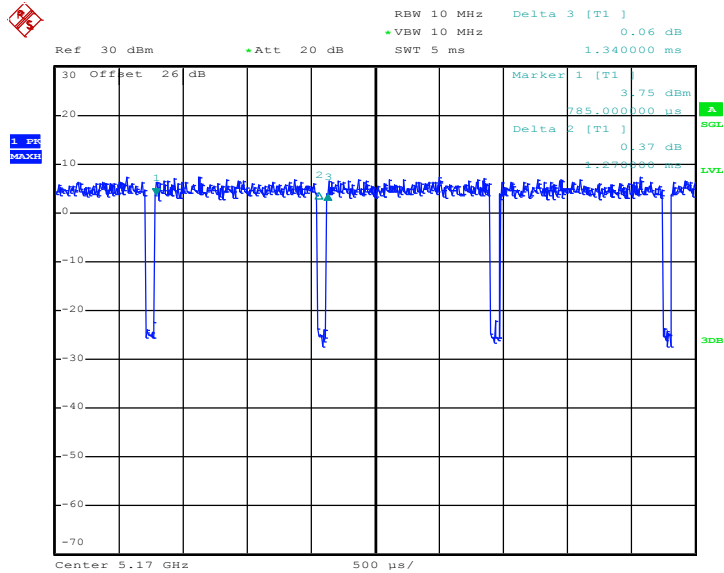
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802.11ac VHT10



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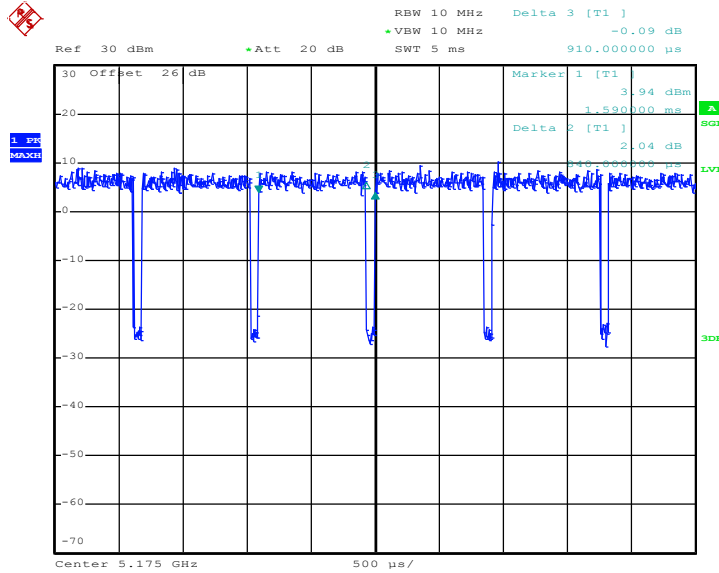
802.11ac VHT20



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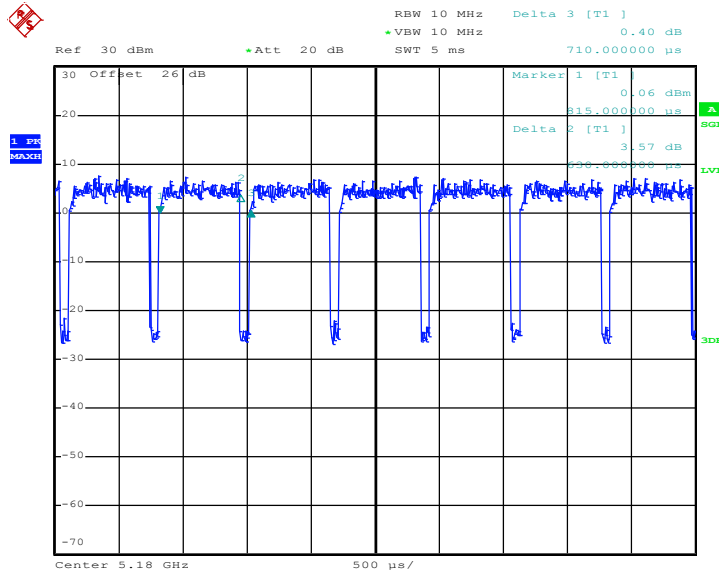


802.11ac VHT30



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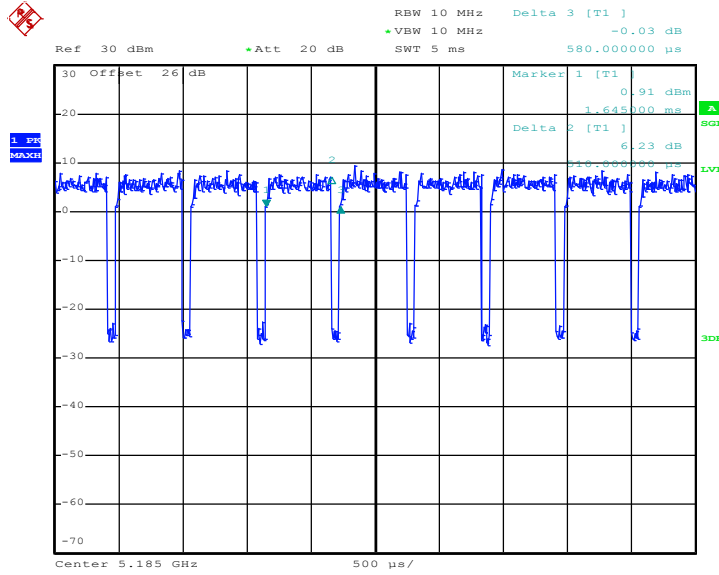
802.11ac VHT40



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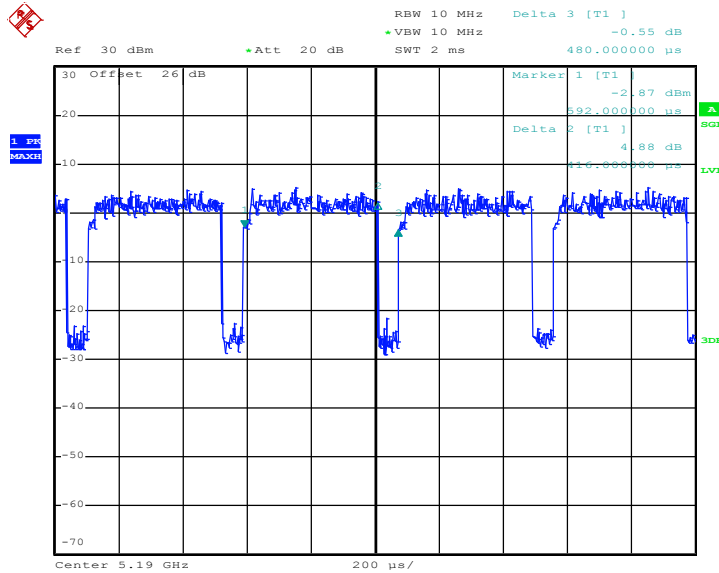


802.11ac VHT50



Date: 18.JAN.2017 07:01:52

802.11ac VHT60

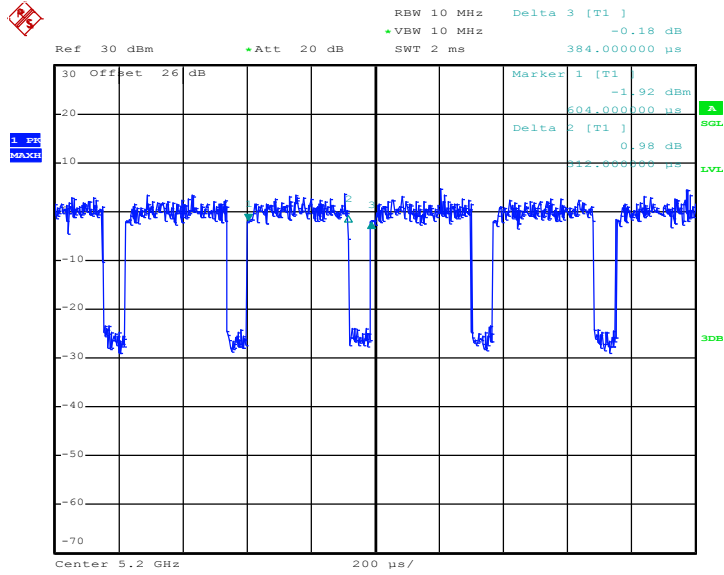


Date: 18.JAN.2017 07:34:16





802.11ac VHT80



Date: 18.JAN.2017 07:57:20