



# FCC RADIO TEST REPORT

**FCC ID** : 2AFZZG7G  
**Equipment** : Mobile Phone  
**Brand Name** : Redmi  
**Model Name** : M1906G7G  
**Applicant** : Xiaomi Communications Co., Ltd.  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Jun. 18, 2019 and testing was started from Aug. 15, 2019 and completed on Sep. 13, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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



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## **History of this test report**



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.33 dB at 5351.520 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 13.92 dB at 0.517 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang****Report Producer: Yimin Ho**



## 1 General Description

### 1.1. Applicant

**Xiaomi Communications Co., Ltd.**

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

### 1.2. Manufacturer

**Xiaomi Communications Co., Ltd.**

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

### 1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GNSS

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: <b>&lt;Ant. 1&gt;</b> : PIFA Antenna <b>&lt;Ant. 2&gt;</b> : PIFA Antenna Bluetooth: <b>&lt;Ant. 1&gt;</b> : PIFA Antenna <b>&lt;Ant. 2&gt;</b> : PIFA Antenna GPS / Glonass / BDS / Galileo : PIFA Antenna NFC: Loop Antenna FM: Using earphone as Antenna

### 1.4. Modification of EUT

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



## 1.5. Testing Location

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

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

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

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

FCC designation No.: TW1190 and TW0007

## 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 v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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 (Z plane for Ant. 1 and X plane for Ant. 2) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

**Note:**

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



## 2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1: LTE Band 2 Link + Bluetooth Link + WLAN (5GHz) Link + Video Record (Rear) + Earphone + SD Card + USB Cable 1 (Charging from AC Adapter)
Remark: For Radiated Test Cases, the tests were performed with USB Cable 1	



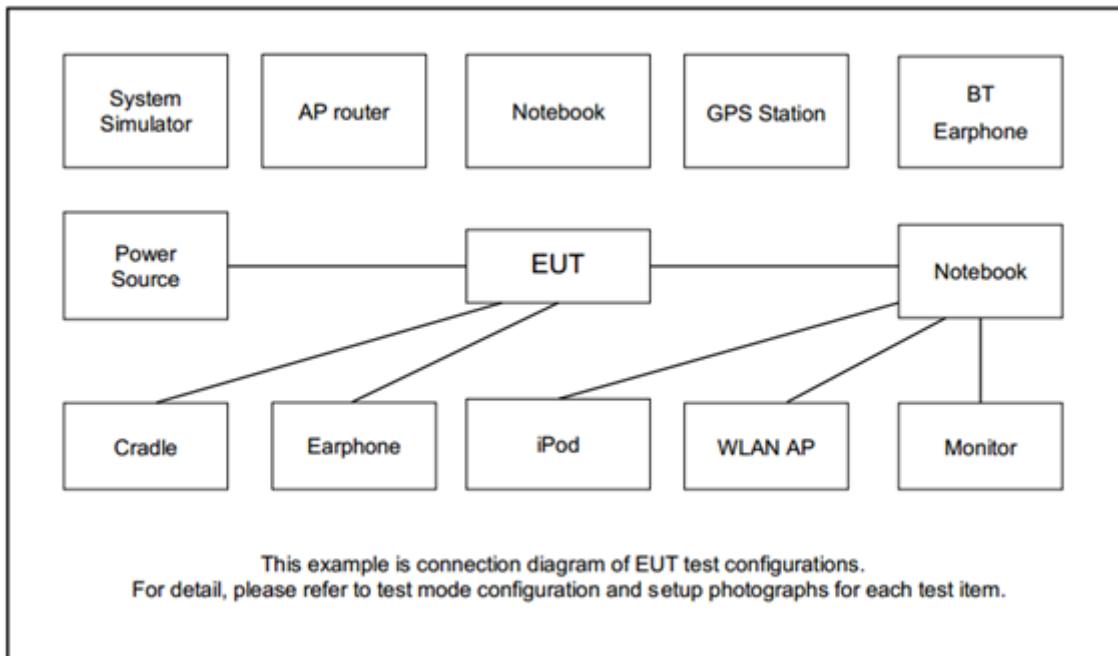
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

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

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

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 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
4.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

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

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

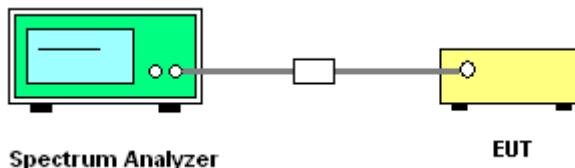
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

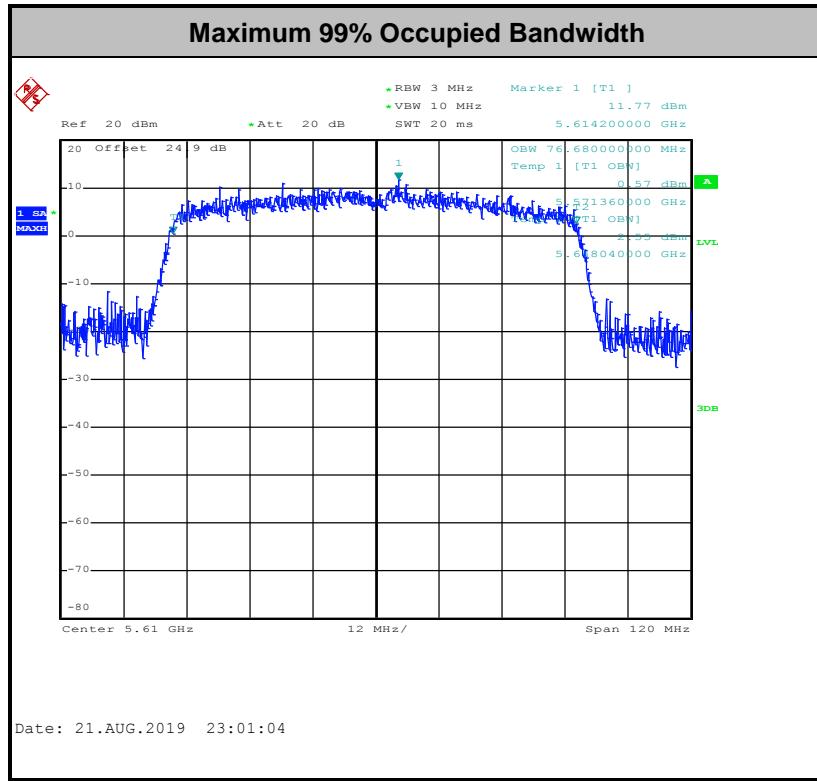
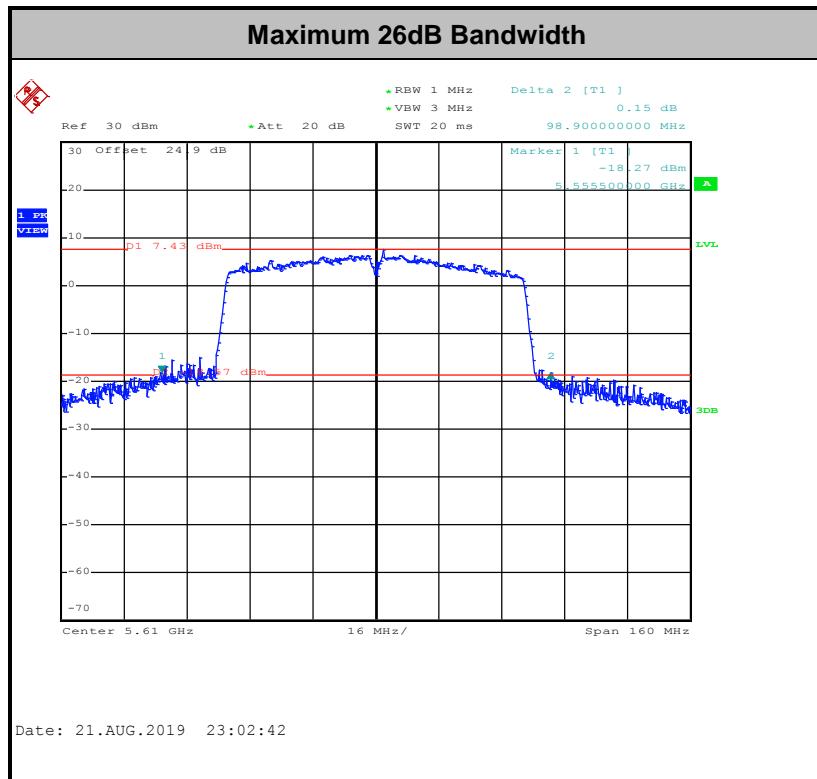
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement  
as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set  
1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup



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

Please refer to Appendix A.



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



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

#### <FCC 14-30 CFR 15.407>

##### For the 5.15–5.25 GHz bands:

- For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

##### For the 5.25–5.725 GHz bands:

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

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.2.3 Test Procedures

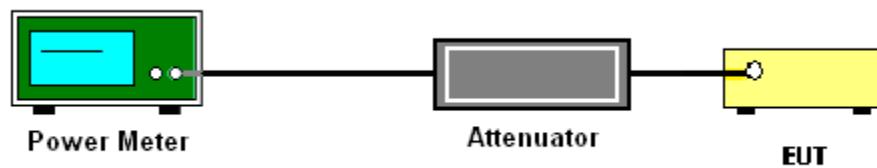
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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



### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

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

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

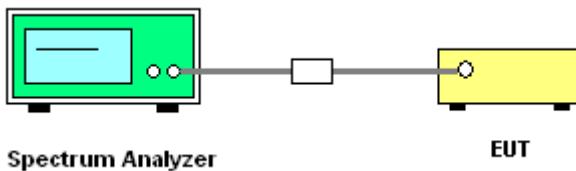
**# Method SA-3 #**

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  - Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

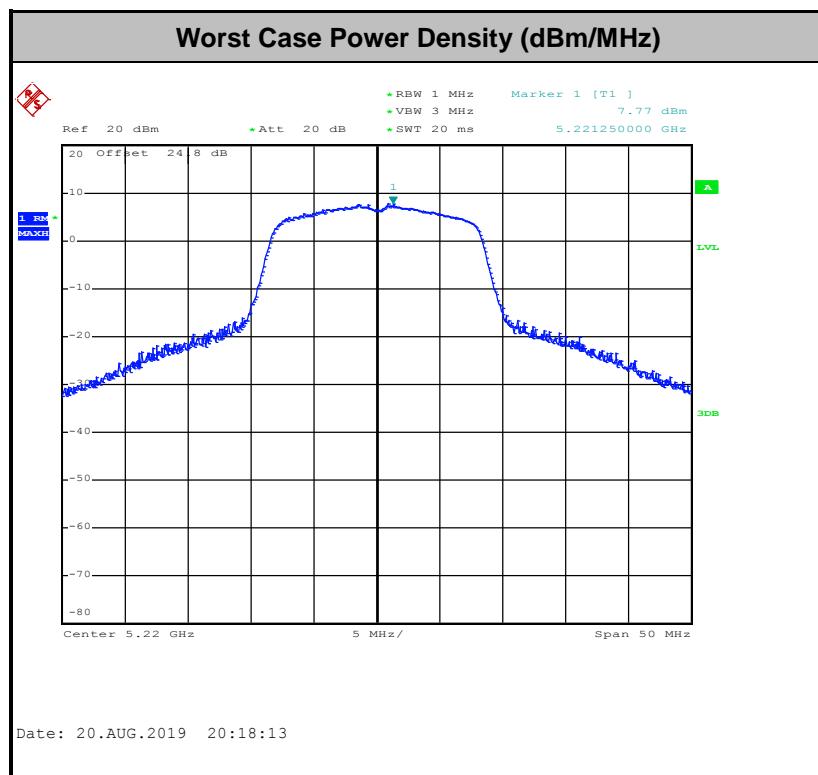


### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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



## 3.4 Unwanted Emissions Measurement

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

### 3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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



EIRP (dBm)	Field Strength at 3m (dB $\mu$ V/m)
- 27	68.3

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

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

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

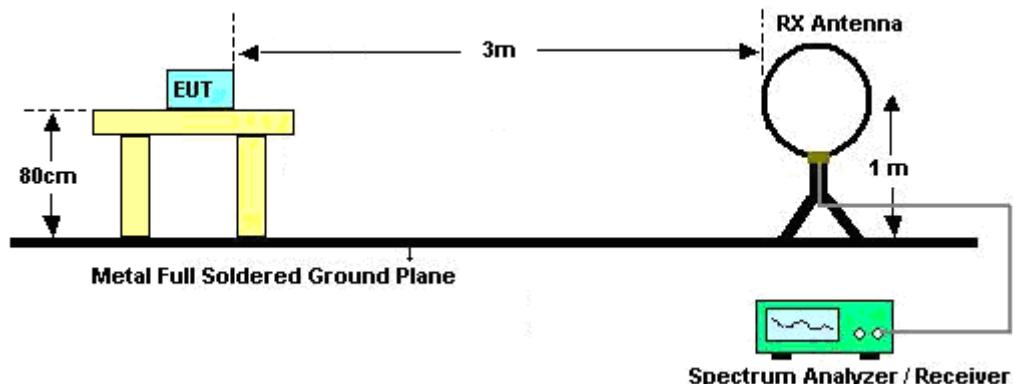
### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

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

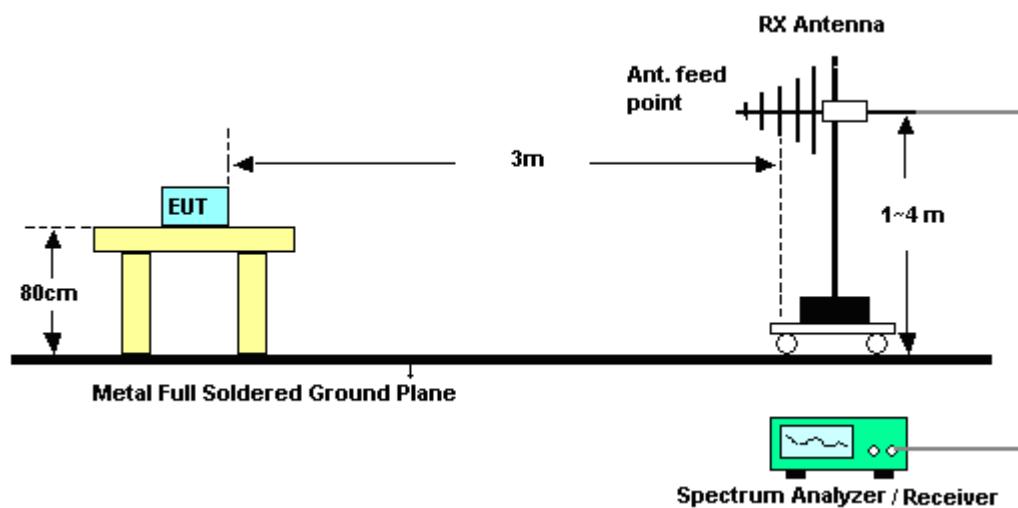
### 3.4.4 Test Setup

For radiated emissions below 30MHz

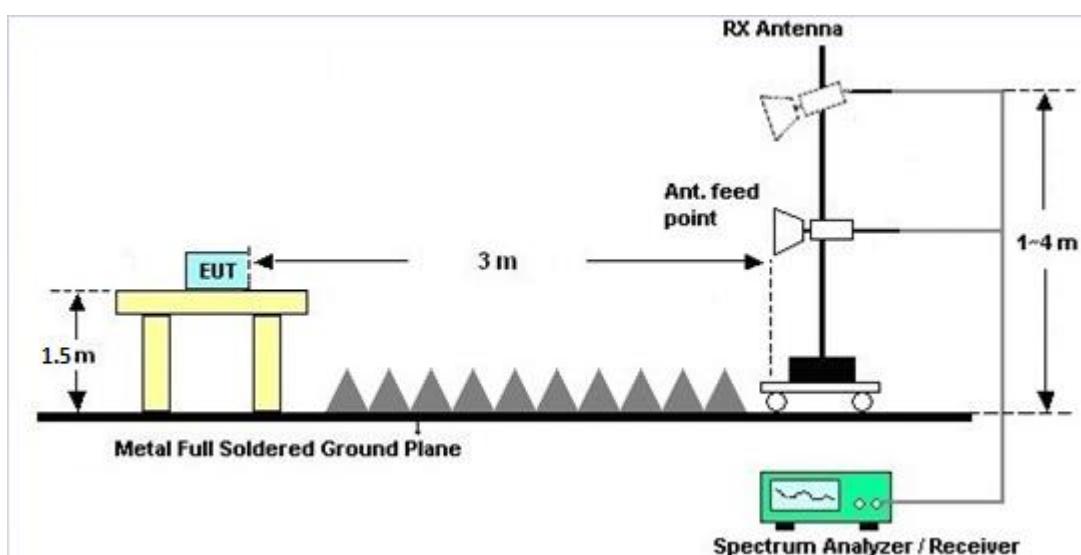




For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

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

### 3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



## 3.5 AC Conducted Emission Measurement

### 3.5.1 Limit of AC Conducted Emission

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

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

\*Decreases with the logarithm of the frequency.

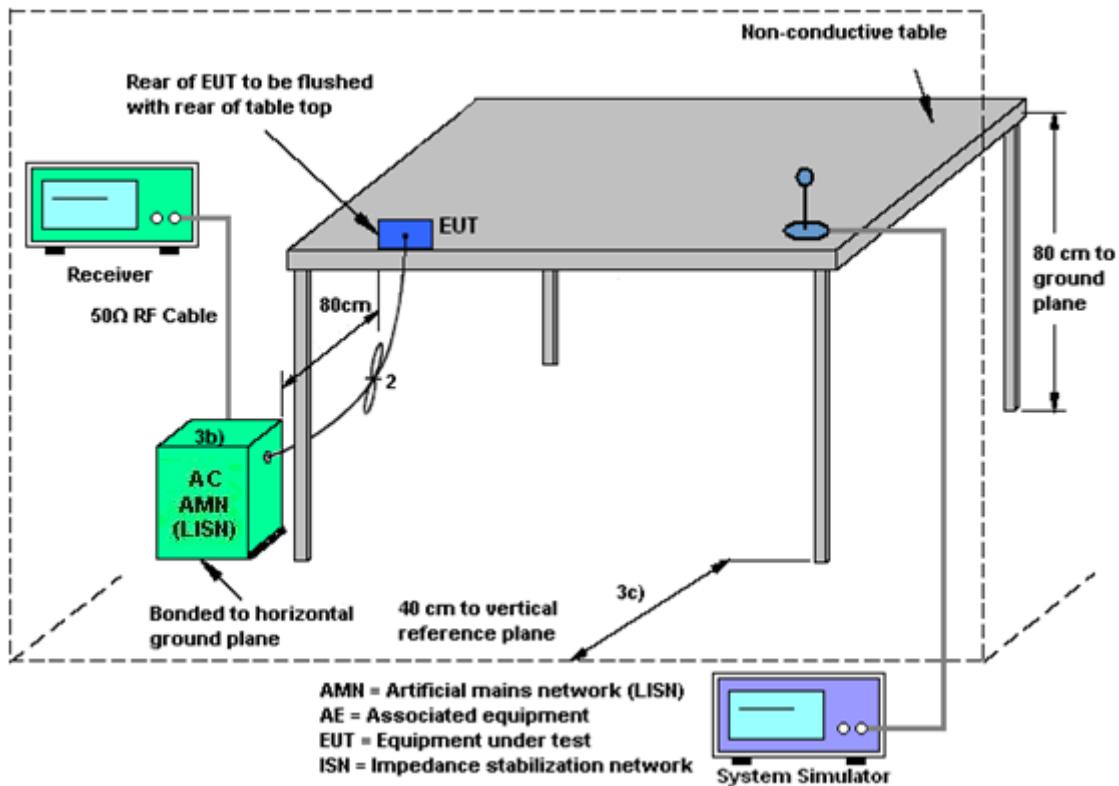
### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## 3.6 Automatically Discontinue Transmission

### 3.6.1 Limit of Automatically Discontinue Transmission

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

### 3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.6.3 Test Result of Automatically Discontinue Transmission

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



## 3.7 Antenna Requirements

### 3.7.1 Standard Applicable

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

### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

### 3.7.3 Antenna Gain

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



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Sep. 03, 2019~Sep. 12, 2019	Jan. 06, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Sep. 03, 2019~Sep. 12, 2019	Dec. 05, 2019	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 12, 2019	Sep. 03, 2019~Sep. 12, 2019	Feb. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 17, 2018	Sep. 03, 2019~Sep. 12, 2019	Oct. 16, 2019	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	Sep. 03, 2019~Sep. 12, 2019	Dec. 04, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Sep. 03, 2019~Sep. 12, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Aug. 06, 2019	Sep. 03, 2019~Sep. 12, 2019	Aug. 05, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2018	Sep. 03, 2019~Sep. 12, 2019	Aug. 22, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY541300 85	20Hz ~ 8.4GHz	Nov. 01, 2018	Sep. 03, 2019~Sep. 12, 2019	Oct. 31, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 29, 2019	Sep. 03, 2019~Sep. 12, 2019	Apr. 28, 2020	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 03, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 03, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-00045 1	N/A	N/A	Sep. 03, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 15, 2019	Sep. 03, 2019~Sep. 12, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4 PE	30M-18G	Apr. 15, 2019	Sep. 03, 2019~Sep. 12, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430 /4	30M~18GHz	May 13, 2019	Sep. 03, 2019~Sep. 12, 2019	May 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Sep. 03, 2019~Sep. 12, 2019	Mar. 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Sep. 03, 2019~Sep. 12, 2019	Mar. 12, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40SS	SN4	1.53G Low Pass	Jul. 04, 2019	Sep. 03, 2019~Sep. 12, 2019	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN6	6.75 GHz Highpass	Jul. 02, 2019	Sep. 03, 2019~Sep. 12, 2019	Jul. 01, 2020	Radiation (03CH15-HY)



## FCC RADIO TEST REPORT

Report No. : FR961832E

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Aug. 15, 2019~ Sep. 10, 2109	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz~40GHz	Nov. 21, 2018	Aug. 15, 2019~ Sep. 10, 2109	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW107090 3	N/A	Dec 19,2018	Aug. 15, 2019~ Sep. 10, 2109	Dec 18 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 13, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Sep. 13, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Sep. 13, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Sep. 13, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 13, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Sep. 13, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Sep. 13, 2019	Dec. 30, 2019	Conduction (CO05-HY)



## 5 Uncertainty of Evaluation

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

<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_{C(y)}</math>)</b>	2.20
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_{C(y)}</math>)</b>	5.20
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_{C(y)}</math>)</b>	5.50
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_{C(y)}</math>)</b>	5.20
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## Appendix A. Test Result of Conducted Test Items

Test Engineer:	Nick Yu/Derek Hsu	Temperature:	21~25	°C
Test Date:	2019/8/15~2019/09/10	Relative Humidity:	51~54	%

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

Band I													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.60	-	35.35	-	-	-	22.20	-	
11a	6Mbps	1	44	5220	16.95	-	38.90	-	-	-	22.29	-	
11a	6Mbps	1	48	5240	16.90	-	38.90	-	-	-	22.28	-	
HT20	MCS0	1	36	5180	17.75	-	38.20	-	-	-	22.49	-	
HT20	MCS0	1	44	5220	17.90	-	41.65	-	-	-	22.53	-	
HT20	MCS0	1	48	5240	17.90	-	38.85	-	-	-	22.53	-	
HT40	MCS0	1	38	5190	36.20	-	41.67	-	-	-	23.01	-	
HT40	MCS0	1	46	5230	36.30	-	69.12	-	-	-	23.01	-	
VHT80	MCS0	1	42	5210	76.08	-	80.96	-	-	-	23.01	-	

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

FCC Band I												
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	15.80	12.70		24.00	24.00	1.50	-0.83	
11a	6Mbps	1	44	5220	16.60	13.10		24.00	24.00	1.50	-0.83	
11a	6Mbps	1	48	5240	16.50	12.70		24.00	24.00	1.50	-0.83	
HT20	MCS0	1	36	5180	16.50	12.70		24.00	24.00	1.50	-0.83	
HT20	MCS0	1	44	5220	16.40	13.00		24.00	24.00	1.50	-0.83	
HT20	MCS0	1	48	5240	16.50	12.50		24.00	24.00	1.50	-0.83	
HT40	MCS0	1	38	5190	12.40	11.70		24.00	24.00	1.50	-0.83	
HT40	MCS0	1	46	5230	15.40	11.70		24.00	24.00	1.50	-0.83	
VHT20	MCS0	1	36	5180	16.40	12.60		24.00	24.00	1.50	-0.83	
VHT20	MCS0	1	44	5220	16.30	12.90		24.00	24.00	1.50	-0.83	
VHT20	MCS0	1	48	5240	16.40	12.40		24.00	24.00	1.50	-0.83	
VHT40	MCS0	1	38	5190	12.00	11.60		24.00	24.00	1.50	-0.83	
VHT40	MCS0	1	46	5230	15.30	11.60		24.00	24.00	1.50	-0.83	
VHT80	MCS0	1	42	5210	10.60	10.30		24.00	24.00	1.50	-0.83	

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

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.17	0.14	6.51	-		11.00	-	1.50	-0.83	
11a	6Mbps	1	44	5220	0.17	0.14	7.77	-		11.00	-	1.50	-0.83	
11a	6Mbps	1	48	5240	0.17	0.14	7.58	-		11.00	-	1.50	-0.83	
HT20	MCS0	1	36	5180	0.18	0.15	6.56	-		11.00	-	1.50	-0.83	
HT20	MCS0	1	44	5220	0.18	0.15	7.57	-		11.00	-	1.50	-0.83	
HT20	MCS0	1	48	5240	0.18	0.15	7.41	-		11.00	-	1.50	-0.83	
HT40	MCS0	1	38	5190	0.31	0.31	-0.57	-		11.00	-	1.50	-0.83	
HT40	MCS0	1	46	5230	0.31	0.31	3.49	-		11.00	-	1.50	-0.83	
VHT80	MCS0	1	42	5210	0.55	0.58	-4.82	-		11.00	-	1.50	-0.83	

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

Band II															
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.90	-	37.00	-	23.28	-	29.28	-	23.98	-	
11a	6Mbps	1	60	5300	17.00	-	37.30	-	23.30	-	29.30	-	23.98	-	
11a	6Mbps	1	64	5320	16.65	-	33.75	-	23.21	-	29.21	-	23.98	-	
HT20	MCS0	1	52	5260	18.15	-	41.95	-	23.59	-	29.59	-	23.98	-	
HT20	MCS0	1	60	5300	17.95	-	39.55	-	23.54	-	29.54	-	23.98	-	
HT20	MCS0	1	64	5320	17.80	-	36.85	-	23.50	-	29.50	-	23.98	-	
HT40	MCS0	1	54	5270	36.50	-	71.14	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.10	-	41.58	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	75.96	-	80.96	-	23.98	-	30.00	-	23.98	-	

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

FCC Band II													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	16.50	12.60		23.98	23.98	1.01	0.72	26.99	Pass
11a	6Mbps	1	60	5300	16.60	13.10		23.98	23.98	1.01	0.72	26.99	Pass
11a	6Mbps	1	64	5320	15.80	12.90		23.98	23.98	1.01	0.72	26.99	Pass
HT20	MCS0	1	52	5260	16.50	12.40		23.98	23.98	1.01	0.72	26.99	Pass
HT20	MCS0	1	60	5300	16.40	13.10		23.98	23.98	1.01	0.72	26.99	Pass
HT20	MCS0	1	64	5320	16.10	12.70		23.98	23.98	1.01	0.72	26.99	Pass
HT40	MCS0	1	54	5270	15.40	11.50		23.98	23.98	1.01	0.72	26.99	Pass
HT40	MCS0	1	62	5310	12.40	12.00		23.98	23.98	1.01	0.72	26.99	Pass
VHT20	MCS0	1	52	5260	16.40	12.30		23.98	23.98	1.01	0.72	26.99	Pass
VHT20	MCS0	1	60	5300	16.30	13.00		23.98	23.98	1.01	0.72	26.99	Pass
VHT20	MCS0	1	64	5320	15.80	12.60		23.98	23.98	1.01	0.72	26.99	Pass
VHT40	MCS0	1	54	5270	15.30	11.40		23.98	23.98	1.01	0.72	26.99	Pass
VHT40	MCS0	1	62	5310	12.30	11.90		23.98	23.98	1.01	0.72	26.99	Pass
VHT80	MCS0	1	58	5290	11.20	10.90		23.98	23.98	1.01	0.72	26.99	Pass

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

Band II														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.17	0.14	7.40	-		11.00	-	1.01	0.72	
11a	6Mbps	1	60	5300	0.17	0.14	7.31	-		11.00	-	1.01	0.72	Pass
11a	6Mbps	1	64	5320	0.17	0.14	6.49	-		11.00	-	1.01	0.72	Pass
HT20	MCS0	1	52	5260	0.18	0.15	7.62	-		11.00	-	1.01	0.72	Pass
HT20	MCS0	1	60	5300	0.18	0.15	7.45	-		11.00	-	1.01	0.72	Pass
HT20	MCS0	1	64	5320	0.18	0.15	6.79	-		11.00	-	1.01	0.72	Pass
HT40	MCS0	1	54	5270	0.31	0.31	3.42	-		11.00	-	1.01	0.72	Pass
HT40	MCS0	1	62	5310	0.31	0.31	0.12	-		11.00	-	1.01	0.72	Pass
VHT80	MCS0	1	58	5290	0.55	0.58	-3.95	-		11.00	-	1.01	0.72	Pass

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

Band III																
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.70	-	36.65	-	23.23	-	29.23	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.30	-	39.65	-	23.38	-	29.38	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.60	-	30.35	-	23.20	-	29.20	-	23.98	-	----	----
HT20	MCS0	1	100	5500	17.65	-	30.45	-	23.47	-	29.47	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.15	-	43.95	-	23.59	-	29.59	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.90	-	31.80	-	23.53	-	29.53	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.20	-	41.40	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.50	-	72.67	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.60	-	72.99	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	76.20	-	80.64	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.68	-	98.90	-	23.98	-	30.00	-	23.98	-	----	----

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

FCC Band III													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	15.40	13.80		23.98	23.98	0.68	0.91	26.99	Pass
11a	6Mbps	1	116	5580	16.30	13.70		23.98	23.98	0.68	0.91	26.99	Pass
11a	6Mbps	1	140	5700	13.60	12.90		23.98	23.98	0.68	0.91	26.99	Pass
HT20	MCS0	1	100	5500	13.40	13.30		23.98	23.98	0.68	0.91	26.99	Pass
HT20	MCS0	1	116	5580	16.00	13.70		23.98	23.98	0.68	0.91	26.99	Pass
HT20	MCS0	1	140	5700	13.00	12.70		23.98	23.98	0.68	0.91	26.99	Pass
HT40	MCS0	1	102	5510	11.60	11.20		23.98	23.98	0.68	0.91	26.99	Pass
HT40	MCS0	1	110	5550	15.20	12.60		23.98	23.98	0.68	0.91	26.99	Pass
HT40	MCS0	1	134	5670	14.50	12.20		23.98	23.98	0.68	0.91	26.99	Pass
VHT20	MCS0	1	100	5500	13.10	13.00		23.98	23.98	0.68	0.91	26.99	Pass
VHT20	MCS0	1	116	5580	15.90	13.60		23.98	23.98	0.68	0.91	26.99	Pass
VHT20	MCS0	1	140	5700	12.60	12.50		23.98	23.98	0.68	0.91	26.99	Pass
VHT40	MCS0	1	102	5510	11.40	11.10		23.98	23.98	0.68	0.91	26.99	Pass
VHT40	MCS0	1	110	5550	15.10	12.50		23.98	23.98	0.68	0.91	26.99	Pass
VHT40	MCS0	1	134	5670	14.40	12.10		23.98	23.98	0.68	0.91	26.99	Pass
VHT80	MCS0	1	106	5530	11.20	11.10		23.98	23.98	0.68	0.91	26.99	Pass
VHT80	MCS0	1	122	5610	13.90	11.40		23.98	23.98	0.68	0.91	26.99	Pass

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

Band III														
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.17	0.14	6.15	-		11.00	-	0.68	0.91	
11a	6Mbps	1	116	5580	0.17	0.14	6.91	-		11.00	-	0.68	0.91	Pass
11a	6Mbps	1	140	5700	0.17	0.14	4.31	-		11.00	-	0.68	0.91	Pass
HT20	MCS0	1	100	5500	0.18	0.15	3.87	-		11.00	-	0.68	0.91	Pass
HT20	MCS0	1	116	5580	0.18	0.15	6.95	-		11.00	-	0.68	0.91	Pass
HT20	MCS0	1	140	5700	0.18	0.15	3.39	-		11.00	-	0.68	0.91	Pass
HT40	MCS0	1	102	5510	0.31	0.31	-0.65	-		11.00	-	0.68	0.91	Pass
HT40	MCS0	1	110	5550	0.31	0.31	3.18	-		11.00	-	0.68	0.91	Pass
HT40	MCS0	1	134	5670	0.31	0.31	2.58	-		11.00	-	0.68	0.91	Pass
VHT80	MCS0	1	106	5530	0.55	0.58	-4.06	-		11.00	-	0.68	0.91	Pass
VHT80	MCS0	1	122	5610	0.55	0.58	-1.24	-		11.00	-	0.68	0.91	Pass



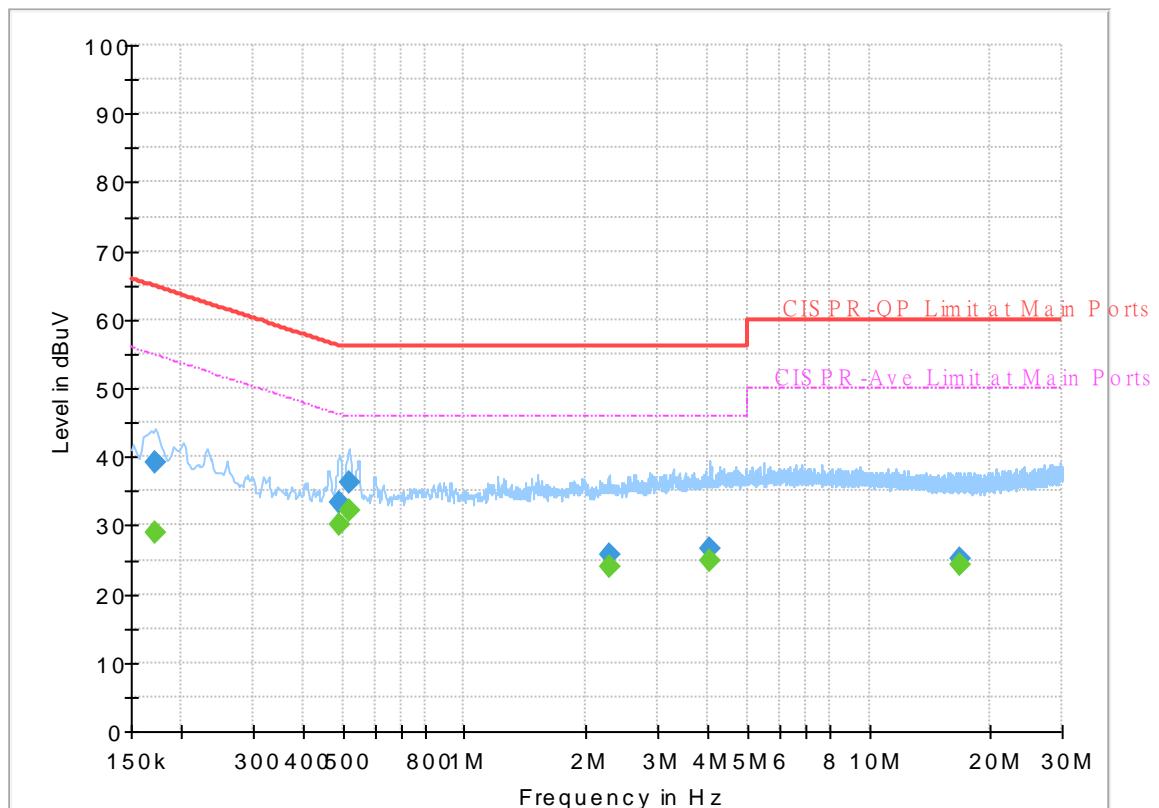
## Appendix B. AC Conducted Emission Test Results

<b>Test Engineer :</b>	Jimmy Chang	<b>Temperature :</b>	24~26°C
		<b>Relative Humidity :</b>	52~56%

## EUT Information

Report NO : 961832  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



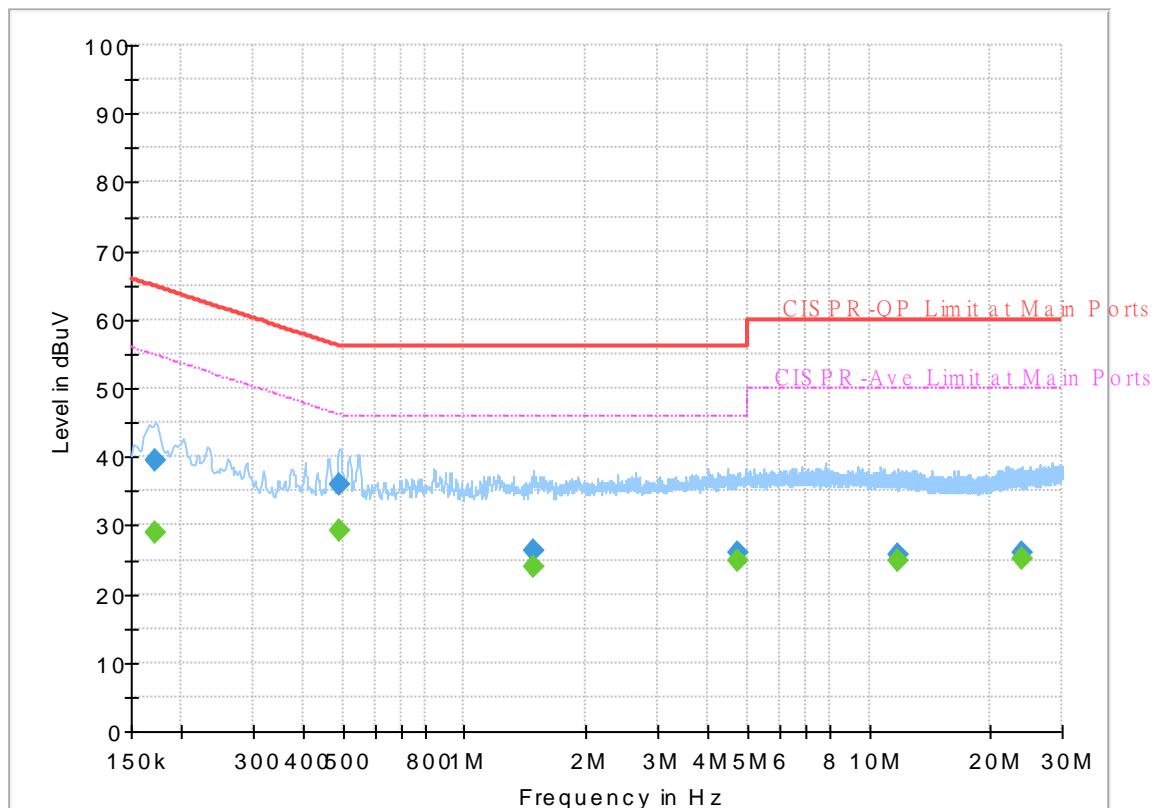
## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	28.99	54.84	25.85	L1	OFF	19.4
0.172500	39.04	---	64.84	25.80	L1	OFF	19.4
0.492000	---	30.07	46.13	16.06	L1	OFF	19.4
0.492000	33.42	---	56.13	22.71	L1	OFF	19.4
0.516750	---	32.08	46.00	13.92	L1	OFF	19.4
0.516750	36.16	---	56.00	19.84	L1	OFF	19.4
2.271750	---	24.04	46.00	21.96	L1	OFF	19.5
2.271750	25.74	---	56.00	30.26	L1	OFF	19.5
4.035750	---	24.98	46.00	21.02	L1	OFF	19.6
4.035750	26.48	---	56.00	29.52	L1	OFF	19.6
16.755000	---	24.19	50.00	25.81	L1	OFF	20.1
16.755000	25.27	---	60.00	34.73	L1	OFF	20.1

## EUT Information

Report NO : 961832  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	28.93	54.84	25.91	N	OFF	19.5
0.172500	39.60	---	64.84	25.24	N	OFF	19.5
0.489750	---	29.38	46.17	16.79	N	OFF	19.5
0.489750	35.82	---	56.17	20.35	N	OFF	19.5
1.477500	---	24.00	46.00	22.00	N	OFF	19.5
1.477500	26.26	---	56.00	29.74	N	OFF	19.5
4.710750	---	24.90	46.00	21.10	N	OFF	19.7
4.710750	26.09	---	56.00	29.91	N	OFF	19.7
11.757750	---	24.77	50.00	25.23	N	OFF	20.0
11.757750	25.80	---	60.00	34.20	N	OFF	20.0
23.858250	---	25.04	50.00	24.96	N	OFF	20.4
23.858250	26.06	---	60.00	33.94	N	OFF	20.4



## Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Liao, Karl Hou and Bigshow Wang	Temperature :	23~26°C
		Relative Humidity :	50~65%

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
802.11a CH 36 5180MHz	1	( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	(dB $\mu$ V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		5145.34	58.96	-15.04	74	48.34	31.8	9.25	30.43	239	326	P	H
		5150	47.93	-6.07	54	37.3	31.8	9.26	30.43	239	326	A	H
	*	5180	106.03	-	-	95.5	31.67	9.29	30.43	239	326	P	H
	*	5180	98.06	-	-	87.53	31.67	9.29	30.43	239	326	A	H
													H
		5149.76	63.61	-10.39	74	52.99	31.8	9.25	30.43	235	20	P	V
		5150	50.22	-3.78	54	39.59	31.8	9.26	30.43	235	20	A	V
	*	5180	108.16	-	-	97.63	31.67	9.29	30.43	235	20	P	V
	*	5180	100.64	-	-	90.11	31.67	9.29	30.43	235	20	A	V
802.11a CH 44 5220MHz													V
		5139.1	51.39	-22.61	74	40.75	31.83	9.24	30.43	223	292	P	H
		5147.42	42.42	-11.58	54	31.8	31.8	9.25	30.43	223	292	A	H
	*	5220	108.29	-	-	97.86	31.53	9.33	30.43	223	292	P	H
	*	5220	100.47	-	-	90.04	31.53	9.33	30.43	223	292	A	H
		5385.24	50.04	-23.96	74	39.49	31.53	9.45	30.43	223	292	P	H
		5383.28	41.06	-12.94	54	30.51	31.53	9.45	30.43	223	292	A	H
		5148.2	51.36	-22.64	74	40.74	31.8	9.25	30.43	174	350	P	V
		5149.5	42.58	-11.42	54	31.96	31.8	9.25	30.43	174	350	A	V
	*	5220	108.7	-	-	98.27	31.53	9.33	30.43	174	350	P	V
	*	5220	101.09	-	-	90.66	31.53	9.33	30.43	174	350	A	V
		5426.68	49.76	-24.24	74	39.05	31.63	9.51	30.43	174	350	P	V
		5387.76	40.96	-13.04	54	30.41	31.53	9.45	30.43	174	350	A	V



802.11a CH 48 5240MHz		5124.54	51.43	-22.57	74	40.8	31.83	9.23	30.43	211	293	P	H
		5144.82	41.9	-12.1	54	31.28	31.8	9.25	30.43	211	293	A	H
	*	5240	109.1	-	-	98.72	31.47	9.34	30.43	211	293	P	H
	*	5240	101.87	-	-	91.49	31.47	9.34	30.43	211	293	A	H
		5355.28	50.3	-23.7	74	39.9	31.4	9.43	30.43	211	293	P	H
		5403.72	41.42	-12.58	54	30.78	31.6	9.47	30.43	211	293	A	H
		5058.5	50.95	-23.05	74	40.33	31.9	9.15	30.43	201	24	P	V
		5145.86	41.72	-12.28	54	31.1	31.8	9.25	30.43	201	24	A	V
	*	5240	109.34	-	-	98.96	31.47	9.34	30.43	201	24	P	V
	*	5240	101.01	-	-	90.63	31.47	9.34	30.43	201	24	A	V
		5402.6	50.27	-23.73	74	39.63	31.6	9.47	30.43	201	24	P	V
		5409.04	41.09	-12.91	54	30.44	31.6	9.48	30.43	201	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 36 5180MHz	1	10360	49.28	-18.92	68.2	60	39.37	13.57	63.66	100	0	P	H
		15540	47.03	-26.97	74	54.53	37.93	17.01	62.44	100	0	P	H
													H
													H
		10360	48.31	-19.89	68.2	59.03	39.37	13.57	63.66	100	0	P	V
		15540	49.81	-24.19	74	57.31	37.93	17.01	62.44	100	0	P	V
													V
802.11a CH 44 5220MHz		10440	51.2	-17	68.2	61.88	39.53	13.65	63.86	100	0	P	H
		15660	46.65	-27.35	74	54.28	37.45	17.16	62.24	100	0	P	H
													H
													H
		10440	49.35	-18.85	68.2	60.03	39.53	13.65	63.86	100	0	P	V
		15660	49.28	-24.72	74	56.91	37.45	17.16	62.24	100	0	P	V
													V
802.11a CH 48 5240MHz		10480	50.39	-17.81	68.2	61.08	39.58	13.68	63.95	100	0	P	H
		15720	47.66	-26.34	74	55.3	37.3	17.21	62.15	100	0	P	H
													H
													H
		10480	49.45	-18.75	68.2	60.14	39.58	13.68	63.95	100	0	P	V
		15720	54.9	-19.1	74	62.54	37.3	17.21	62.15	100	264	P	V
		15720	45.11	-8.89	54	52.75	37.3	17.21	62.15	100	264	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 36 5180MHz		5149.24	64.59	-9.41	74	53.97	31.8	9.25	30.43	238	295	P	H
		5150	50.59	-3.41	54	40.11	31.8	9.26	30.43	238	295	A	H
	*	5180	107.3	-	-	96.77	31.67	9.29	30.43	238	295	P	H
	*	5180	100.11	-	-	89.58	31.67	9.29	30.43	238	295	A	H
													H
													H
		5148.72	65.32	-8.68	74	54.7	31.8	9.25	30.43	207	19	P	V
		5148.2	50.36	-3.64	54	39.74	31.8	9.25	30.43	207	19	A	V
	*	5180	107.93	-	-	97.4	31.67	9.29	30.43	207	19	P	V
	*	5180	100.43	-	-	89.9	31.67	9.29	30.43	207	19	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5149.24	52.07	-21.93	74	41.45	31.8	9.25	30.43	214	294	P	H
		5149.5	42.91	-11.09	54	32.29	31.8	9.25	30.43	214	294	A	H
	*	5220	108.68	-	-	98.25	31.53	9.33	30.43	214	294	P	H
	*	5220	100.95	-	-	90.52	31.53	9.33	30.43	214	294	A	H
		5441.8	50.38	-23.62	74	39.6	31.67	9.54	30.43	214	294	P	H
		5386.08	41.55	-12.45	54	31	31.53	9.45	30.43	214	294	A	H
		5121.16	52.59	-21.41	74	41.93	31.87	9.22	30.43	215	24	P	V
		5146.38	43.34	-10.66	54	32.72	31.8	9.25	30.43	215	24	A	V
	*	5220	109.93	-	-	99.5	31.53	9.33	30.43	215	24	P	V
	*	5220	101.82	-	-	91.39	31.53	9.33	30.43	215	24	A	V
		5411.28	51.27	-22.73	74	40.62	31.6	9.48	30.43	215	24	P	V
		5388.88	41.59	-12.41	54	31.04	31.53	9.45	30.43	215	24	A	V



802.11n		5147.16	50.87	-23.13	74	40.25	31.8	9.25	30.43	223	292	P	H	
		5147.94	42.06	-11.94	54	31.44	31.8	9.25	30.43	223	292	A	H	
	*	5240	109.45	-	-	99.07	31.47	9.34	30.43	223	292	P	H	
	*	5240	101.46	-	-	91.08	31.47	9.34	30.43	223	292	A	H	
		5406.24	51.09	-22.91	74	40.45	31.6	9.47	30.43	223	292	P	H	
	HT20		5406.8	41.8	-12.2	54	31.16	31.6	9.47	30.43	223	292	A	H
	CH 48		5137.02	51.35	-22.65	74	40.71	31.83	9.24	30.43	202	24	P	V
	5240MHz		5149.76	42.38	-11.62	54	31.76	31.8	9.25	30.43	202	24	A	V
	*	5240	109.38	-	-	99	31.47	9.34	30.43	202	24	P	V	
	*	5240	101.94	-	-	91.56	31.47	9.34	30.43	202	24	A	V	
			5449.36	50.99	-23.01	74	40.16	31.7	9.56	30.43	202	24	P	V
			5412.12	41.78	-12.22	54	31.1	31.63	9.48	30.43	202	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT20 CH 36 5180MHz	1	10360	47.4	-20.8	68.2	58.12	39.37	13.57	63.66	100	0	P	H
		15540	47.35	-26.65	74	54.85	37.93	17.01	62.44	100	0	P	H
													H
													H
		10360	48.08	-20.12	68.2	58.8	39.37	13.57	63.66	100	0	P	V
		15540	50.01	-23.99	74	57.51	37.93	17.01	62.44	100	0	P	V
													V
802.11n HT20 CH 44 5220MHz		10440	49.03	-19.17	68.2	59.71	39.53	13.65	63.86	100	0	P	H
		15660	46.67	-27.33	74	54.3	37.45	17.16	62.24	100	0	P	H
													H
													H
		10440	49.27	-18.93	68.2	59.95	39.53	13.65	63.86	100	0	P	V
		15660	48.47	-25.53	74	56.1	37.45	17.16	62.24	100	0	P	V
													V
802.11n HT20 CH 48 5240MHz		10480	47.86	-20.34	68.2	58.55	39.58	13.68	63.95	100	0	P	H
		15720	46.87	-27.13	74	54.51	37.3	17.21	62.15	100	0	P	H
													H
													H
		10480	48.05	-20.15	68.2	58.74	39.58	13.68	63.95	100	0	P	V
		15720	49.95	-24.05	74	57.59	37.3	17.21	62.15	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 38 5190MHz		5150	64.16	-9.84	74	53.53	31.8	9.26	30.43	214	292	P	H
		5150	48.92	-5.08	54	38.29	31.8	9.26	30.43	214	292	A	H
	*	5190	102.33	-	-	91.79	31.67	9.3	30.43	214	292	P	H
	*	5190	94.49	-	-	83.95	31.67	9.3	30.43	214	292	A	H
		5388.88	50.19	-23.81	74	39.64	31.53	9.45	30.43	214	292	P	H
		5405.4	41.97	-12.03	54	31.33	31.6	9.47	30.43	214	292	A	H
		5149.5	65.41	-8.59	74	54.79	31.8	9.25	30.43	204	19	P	V
		5149.24	49.61	-4.39	54	38.99	31.8	9.25	30.43	204	19	A	V
	*	5190	102.67	-	-	92.13	31.67	9.3	30.43	204	19	P	V
	*	5190	95.19	-	-	84.65	31.67	9.3	30.43	204	19	A	V
802.11n HT40 CH 46 5230MHz		5379.64	51.28	-22.72	74	40.74	31.53	9.44	30.43	204	19	P	V
		5421.92	42.05	-11.95	54	31.35	31.63	9.5	30.43	204	19	A	V
		5147.94	54.15	-19.85	74	43.53	31.8	9.25	30.43	224	291	P	H
		5147.94	44.72	-9.28	54	34.1	31.8	9.25	30.43	224	291	A	H
	*	5230	105.91	-	-	95.54	31.47	9.33	30.43	224	291	P	H
	*	5230	98.03	-	-	87.66	31.47	9.33	30.43	224	291	A	H
		5360.04	51.36	-22.64	74	40.96	31.4	9.43	30.43	224	291	P	H
		5358.92	42.93	-11.07	54	32.53	31.4	9.43	30.43	224	291	A	H
		5145.86	56.86	-17.14	74	46.24	31.8	9.25	30.43	204	23	P	V
		5149.5	45.44	-8.56	54	34.82	31.8	9.25	30.43	204	23	A	V
Remark	*	5230	105.72	-	-	95.35	31.47	9.33	30.43	204	23	P	V
	*	5230	98.44	-	-	88.07	31.47	9.33	30.43	204	23	A	V
		5457.2	50.52	-23.48	74	39.68	31.7	9.57	30.43	204	23	P	V
		5389.16	42.34	-11.66	54	31.79	31.53	9.45	30.43	204	23	A	V
		1.	No other spurious found.										
		2.	All results are PASS against Peak and Average limit line.										



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT40 CH 38 5190MHz	1	10380	46.67	-21.53	68.2	57.36	39.43	13.59	63.71	100	0	P	H
		15570	45.99	-28.01	74	53.56	37.77	17.05	62.39	100	0	P	H
													H
													H
		10380	47.01	-21.19	68.2	57.7	39.43	13.59	63.71	100	0	P	V
		15570	46.03	-27.97	74	53.6	37.77	17.05	62.39	100	0	P	V
													V
802.11n HT40 CH 46 5230MHz		10460	48.97	-19.23	68.2	59.66	39.55	13.66	63.9	100	0	P	H
		15690	45.99	-28.01	74	53.65	37.35	17.19	62.2	100	0	P	H
													H
													H
		10460	47.61	-20.59	68.2	58.3	39.55	13.66	63.9	100	0	P	V
		15690	46.21	-27.79	74	53.87	37.35	17.19	62.2	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level (dB $\mu$ V)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5135.2	55.07	-18.93	74	44.43	31.83	9.24	30.43	226	290	P	H
		5144.82	48.65	-5.35	54	38.03	31.8	9.25	30.43	226	290	A	H
	*	5210	97.48	-	-	87.06	31.53	9.32	30.43	226	290	P	H
	*	5210	90.43	-	-	80.01	31.53	9.32	30.43	226	290	A	H
		5415.2	50.51	-23.49	74	39.82	31.63	9.49	30.43	226	290	P	H
		5362.84	43.43	-10.57	54	32.96	31.47	9.43	30.43	226	290	A	H
		5132.34	56.6	-17.4	74	45.96	31.83	9.24	30.43	217	17	P	V
		5144.04	50.4	-3.6	54	39.78	31.8	9.25	30.43	217	17	A	V
	*	5210	98.33	-	-	87.91	31.53	9.32	30.43	217	17	A	V
	*	5210	90.99	-	-	80.57	31.53	9.32	30.43	217	17	A	V
		5457.76	50.76	-23.24	74	39.92	31.7	9.57	30.43	217	17	P	V
		5452.16	43.49	-10.51	54	32.66	31.7	9.56	30.43	217	17	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ac		10420	47.35	-20.85	68.2	58.02	39.52	13.62	63.81	100	0	P	H	
		15630	46.87	-27.13	74	54.54	37.5	17.12	62.29	100	0	P	H	
VHT80													H	
CH 42		10420	47.66	-20.54	68.2	58.33	39.52	13.62	63.81	100	0	P	V	
5210MHz		15630	48.27	-25.73	74	55.94	37.5	17.12	62.29	100	0	P	V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	(dB $\mu$ V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 52 5260MHz		5130.22	49.96	-24.04	74	39.33	31.83	9.23	30.43	219	292	P	H
		5099.28	41.64	-12.36	54	30.97	31.9	9.2	30.43	219	292	A	H
	*	5260	109.07	-	-	98.74	31.4	9.36	30.43	219	292	P	H
	*	5260	101.96	-	-	91.63	31.4	9.36	30.43	219	292	A	H
		5388	52.21	-21.79	74	41.66	31.53	9.45	30.43	219	292	P	H
		5427.12	41.5	-12.5	54	30.79	31.63	9.51	30.43	219	292	A	H
		5095.2	50.71	-23.29	74	40.05	31.9	9.19	30.43	227	21	P	V
		5090.1	41.61	-12.39	54	30.95	31.9	9.19	30.43	227	21	A	V
	*	5260	108.51	-	-	98.18	31.4	9.36	30.43	227	21	P	V
	*	5260	100.99	-	-	90.66	31.4	9.36	30.43	227	21	A	V
		5399.52	50.43	-23.57	74	39.8	31.6	9.46	30.43	227	21	P	V
		5430.72	41.28	-12.72	54	30.52	31.67	9.52	30.43	227	21	A	V
802.11a CH 60 5300MHz		5129.88	51.03	-22.97	74	40.4	31.83	9.23	30.43	205	291	P	H
		5132.6	41.74	-12.26	54	31.1	31.83	9.24	30.43	205	291	A	H
	*	5300	109.5	-	-	99.14	31.4	9.39	30.43	205	291	P	H
	*	5300	102	-	-	91.64	31.4	9.39	30.43	205	291	A	H
		5358.48	53.56	-20.44	74	43.16	31.4	9.43	30.43	205	291	P	H
		5350.08	44.66	-9.34	54	34.27	31.4	9.42	30.43	205	291	A	H
		5050.66	49.66	-24.34	74	39.04	31.9	9.15	30.43	324	41	P	V
		5128.18	41.33	-12.67	54	30.7	31.83	9.23	30.43	324	41	A	V
	*	5300	108.82	-	-	98.46	31.4	9.39	30.43	324	41	P	V
	*	5300	101.56	-	-	91.2	31.4	9.39	30.43	324	41	A	V
		5350.56	55.05	-18.95	74	44.66	31.4	9.42	30.43	324	41	P	V
		5350.08	43.99	-10.01	54	33.6	31.4	9.42	30.43	324	41	A	V



802.11a CH 64 5320MHz	*	5320	109.39	-	-	99.02	31.4	9.4	30.43	217	292	P	H
	*	5320	101.89	-	-	91.52	31.4	9.4	30.43	217	292	A	H
		5356.32	63.33	-10.67	74	52.93	31.4	9.43	30.43	217	292	P	H
		5351.2	50.56	-3.44	54	40.17	31.4	9.42	30.43	217	292	A	H
													H
													H
	*	5320	108.39	-	-	98.02	31.4	9.4	30.43	343	19	P	V
	*	5320	100.56	-	-	90.19	31.4	9.4	30.43	343	19	A	V
		5352.8	63.11	-10.89	74	52.72	31.4	9.42	30.43	343	19	P	V
		5350.88	48.99	-5.01	54	38.6	31.4	9.42	30.43	343	19	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 52 5260MHz		10520	49.21	-18.99	68.2	59.92	39.63	13.69	64.03	100	0	P	H
		15780	46.14	-27.86	74	53.62	37.3	17.27	62.05	100	0	P	H
													H
		10520	48.83	-19.37	68.2	59.54	39.63	13.69	64.03	100	0	P	V
		15780	48.93	-25.07	74	56.41	37.3	17.27	62.05	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	53.65	-20.35	74	64.28	39.8	13.71	64.14	210	46	P	H
		10600	44.22	-9.78	54	54.85	39.8	13.71	64.14	210	46	A	H
		15900	46.63	-27.37	74	54.11	37	17.38	61.86	100	0	P	H
													H
		10600	53.77	-20.23	74	64.4	39.8	13.71	64.14	100	272	P	V
		10600	44.46	-9.54	54	55.09	39.8	13.71	64.14	100	272	A	V
		15900	49.05	-24.95	74	56.53	37	17.38	61.86	100	0	P	V
802.11a CH 64 5320MHz		10640	49.08	-24.92	74	59.76	39.8	13.72	64.2	100	0	P	H
		15960	46.84	-27.16	74	54.34	36.93	17.33	61.76	100	0	P	H
													H
		10640	50.47	-23.53	74	61.15	39.8	13.72	64.2	100	0	P	V
		15960	46.64	-27.36	74	54.14	36.93	17.33	61.76	100	0	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n  HT20  CH 52  5260MHz		5131.92	51.3	-22.7	74	40.66	31.83	9.24	30.43	222	291	P	H
		5092.48	42.01	-11.99	54	31.35	31.9	9.19	30.43	222	291	A	H
	*	5260	110.43	-	-	100.1	31.4	9.36	30.43	222	291	P	H
	*	5260	102.13	-	-	91.8	31.4	9.36	30.43	222	291	A	H
		5447.52	50.93	-23.07	74	40.11	31.7	9.55	30.43	222	291	P	H
		5426.88	42.07	-11.93	54	31.36	31.63	9.51	30.43	222	291	A	H
		5148.58	50.62	-23.38	74	40	31.8	9.25	30.43	224	44	P	V
		5092.82	41.85	-12.15	54	31.19	31.9	9.19	30.43	224	44	A	V
	*	5260	109.5	-	-	99.17	31.4	9.36	30.43	224	44	P	V
	*	5260	101.82	-	-	91.49	31.4	9.36	30.43	224	44	A	V
802.11n  HT20  CH 60  5300MHz		5377.68	50.89	-23.11	74	40.35	31.53	9.44	30.43	224	44	P	V
		5428.08	42.14	-11.86	54	31.43	31.63	9.51	30.43	224	44	A	V
		5091.8	49.73	-24.27	74	39.07	31.9	9.19	30.43	244	325	P	H
		5131.24	41.6	-12.4	54	30.97	31.83	9.23	30.43	244	325	A	H
	*	5300	109.13	-	-	98.77	31.4	9.39	30.43	244	325	P	H
	*	5300	101.16	-	-	90.8	31.4	9.39	30.43	244	325	A	H
		5350.56	54.33	-19.67	74	43.94	31.4	9.42	30.43	244	325	P	H
		5350.32	43.64	-10.36	54	33.25	31.4	9.42	30.43	244	325	A	H
		5045.9	51.1	-22.9	74	40.49	31.9	9.14	30.43	263	27	P	V
		5132.6	41.8	-12.2	54	31.16	31.83	9.24	30.43	263	27	A	V



802.11n HT20 CH 64 5320MHz	*	5320	108.15	-	-	97.78	31.4	9.4	30.43	229	295	P	H
	*	5320	100.44	-	-	90.07	31.4	9.4	30.43	229	295	A	H
		5354.56	66.73	-7.27	74	56.33	31.4	9.43	30.43	229	295	P	H
		5350.08	50.27	-3.73	54	39.88	31.4	9.42	30.43	229	295	A	H
													H
													H
	*	5320	108.41	-	-	98.04	31.4	9.4	30.43	233	44	P	V
	*	5320	101.12	-	-	90.75	31.4	9.4	30.43	233	44	A	V
		5354.08	64.3	-9.7	74	53.9	31.4	9.43	30.43	233	44	P	V
		5350.24	50.59	-3.41	54	40.2	31.4	9.42	30.43	233	44	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT20 CH 52 5260MHz	1	10520	48.97	-19.23	68.2	59.68	39.63	13.69	64.03	100	0	P	H
		15780	46.71	-27.29	74	54.19	37.3	17.27	62.05	100	0	P	H
													H
													H
		10520	50.4	-17.8	68.2	61.11	39.63	13.69	64.03	100	0	P	V
		15780	47.85	-26.15	74	55.33	37.3	17.27	62.05	100	0	P	V
													V
802.11n HT20 CH 60 5300MHz		10600	50.44	-23.56	74	61.07	39.8	13.71	64.14	209	46	P	H
		10600	44.05	-9.95	54	54.68	39.8	13.71	64.14	209	46	A	H
		15900	45.58	-28.42	74	53.06	37	17.38	61.86	100	0	P	H
													H
		10600	53.27	-20.73	74	63.9	39.8	13.71	64.14	100	277	P	V
		10600	43.72	-10.28	54	54.35	39.8	13.71	64.14	100	277	A	V
		15900	47.85	-26.15	74	55.33	37	17.38	61.86	100	0	P	V
802.11n HT20 CH 64 5320MHz		10640	55.78	-18.22	74	66.46	39.8	13.72	64.2	107	265	P	H
		10640	42.69	-11.31	54	53.37	39.8	13.72	64.2	107	265	A	H
		15960	46.65	-27.35	74	54.15	36.93	17.33	61.76	100	0	P	H
													H
		10640	50.7	-23.3	74	61.38	39.8	13.72	64.2	100	0	P	V
		15960	47.84	-26.16	74	55.34	36.93	17.33	61.76	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 54 5270MHz		5091.12	51.14	-22.86	74	40.48	31.9	9.19	30.43	206	289	P	H
		5097.24	42.57	-11.43	54	31.9	31.9	9.2	30.43	206	289	A	H
	*	5270	105.38	-	-	95.05	31.4	9.36	30.43	206	289	P	H
	*	5270	98.17	-	-	87.84	31.4	9.36	30.43	206	289	A	H
		5352.48	54.75	-19.25	74	44.36	31.4	9.42	30.43	206	289	P	H
		5350.56	44.83	-9.17	54	34.44	31.4	9.42	30.43	206	289	A	H
		5108.46	51.35	-22.65	74	40.7	31.87	9.21	30.43	222	40	P	V
		5105.06	42.46	-11.54	54	31.78	31.9	9.21	30.43	222	40	A	V
	*	5270	105.83	-	-	95.5	31.4	9.36	30.43	222	40	P	V
	*	5270	98.7	-	-	88.37	31.4	9.36	30.43	222	40	A	V
802.11n HT40 CH 62 5310MHz		5360.64	55.99	-18.01	74	45.52	31.47	9.43	30.43	222	40	P	V
		5353.92	44.82	-9.18	54	34.42	31.4	9.43	30.43	222	40	A	V
		5080.92	50.84	-23.16	74	40.19	31.9	9.18	30.43	216	290	P	H
		5139.74	41.88	-12.12	54	31.27	31.8	9.24	30.43	216	290	A	H
	*	5310	103.83	-	-	93.47	31.4	9.39	30.43	216	290	P	H
	*	5310	95.08	-	-	84.72	31.4	9.39	30.43	216	290	A	H
		5350.56	64.11	-9.89	74	53.72	31.4	9.42	30.43	216	290	P	H
		5350.08	50.41	-3.59	54	40.02	31.4	9.42	30.43	216	290	A	H
		5027.54	50.27	-23.73	74	39.78	31.8	9.12	30.43	326	24	P	V
		5088.06	41.81	-12.19	54	31.15	31.9	9.19	30.43	326	24	A	V
Remark	*	5310	102.39	-	-	92.03	31.4	9.39	30.43	326	24	P	V
	*	5310	94.71	-	-	84.35	31.4	9.39	30.43	326	24	A	V
		5350.08	62.51	-11.49	74	52.12	31.4	9.42	30.43	326	24	P	V
		5350.32	48.47	-5.53	54	38.08	31.4	9.42	30.43	326	24	A	V
		1.	No other spurious found.										
		2.	All results are PASS against Peak and Average limit line.										



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT40 CH 54 5270MHz	1	10540	48.02	-20.18	68.2	58.71	39.67	13.7	64.06	100	0	P	H
		15810	45.91	-28.09	74	53.31	37.3	17.3	62	100	0	P	H
													H
													H
		10540	47.49	-20.71	68.2	58.18	39.67	13.7	64.06	100	0	P	V
		15810	47.5	-26.5	74	54.9	37.3	17.3	62	100	0	P	V
													V
802.11n HT40 CH 62 5310MHz		10620	48.46	-25.54	74	59.11	39.8	13.72	64.17	100	0	P	H
		15930	46.9	-27.1	74	54.38	36.97	17.36	61.81	100	0	P	H
													H
													H
		10620	47.31	-26.69	74	57.96	39.8	13.72	64.17	100	0	P	V
		15930	46.13	-27.87	74	53.61	36.97	17.36	61.81	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level (dB $\mu$ V)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5076.84	49.81	-24.19	74	39.17	31.9	9.17	30.43	218	290	P	H
		5119	43.64	-10.36	54	32.98	31.87	9.22	30.43	218	290	A	H
	*	5290	99.99	-	-	89.64	31.4	9.38	30.43	218	290	P	H
	*	5290	91.24	-	-	80.89	31.4	9.38	30.43	218	290	A	H
		5378.88	57.48	-16.52	74	46.94	31.53	9.44	30.43	218	290	P	H
		5350.08	50.61	-3.39	54	40.22	31.4	9.42	30.43	218	290	A	H
		5057.8	50.01	-23.99	74	39.39	31.9	9.15	30.43	347	29	P	V
		5148.92	43.39	-10.61	54	32.77	31.8	9.25	30.43	347	29	A	V
	*	5290	97.32	-	-	86.97	31.4	9.38	30.43	347	29	P	V
	*	5290	89.94	-	-	79.59	31.4	9.38	30.43	347	29	A	V
		5352	59.88	-14.12	74	49.49	31.4	9.42	30.43	347	29	P	V
		5354.4	48.55	-5.45	54	38.15	31.4	9.43	30.43	347	29	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ac		10580	46.34	-21.86	68.2	56.97	39.77	13.71	64.11	100	0	P	H	
		15870	45.36	-28.64	74	52.86	37.06	17.35	61.91	100	0	P	H	
VHT80													H	
CH 58		10580	46.62	-21.58	68.2	57.25	39.77	13.71	64.11	100	0	P	V	
5290MHz		15870	45.42	-28.58	74	52.92	37.06	17.35	61.91	100	0	P	V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 100 5500MHz		5459.12	57.25	-16.75	74	46.4	31.7	9.58	30.43	217	293	P	H
		5468.08	64.6	-3.6	68.2	53.74	31.7	9.59	30.43	217	293	P	H
		5459.44	46.06	-7.94	54	35.21	31.7	9.58	30.43	217	293	A	H
	*	5500	107.6	-	-	96.67	31.7	9.66	30.43	217	293	P	H
	*	5500	100.26	-	-	89.33	31.7	9.66	30.43	217	293	A	H
													H
		5455.92	60.06	-13.94	74	49.22	31.7	9.57	30.43	224	19	P	V
		5466.8	64.67	-3.53	68.2	53.81	31.7	9.59	30.43	224	19	P	V
		5459.28	47.21	-6.79	54	36.36	31.7	9.58	30.43	224	19	A	V
	*	5500	108.44	-	-	97.51	31.7	9.66	30.43	224	19	P	V
	*	5500	100.79	-	-	89.86	31.7	9.66	30.43	224	19	A	V
													V
802.11a CH 116 5580MHz		5376.88	50.34	-23.66	74	39.86	31.47	9.44	30.43	219	291	P	H
		5464.96	49.79	-18.41	68.2	38.93	31.7	9.59	30.43	219	291	P	H
		5457.28	41.38	-12.62	54	30.54	31.7	9.57	30.43	219	291	A	H
	*	5580	108.79	-	-	97.66	31.8	9.81	30.48	219	291	P	H
	*	5580	101.09	-	-	89.96	31.8	9.81	30.48	219	291	A	H
		5733.815	49.47	-18.73	68.2	38.25	31.93	9.86	30.57	219	291	P	H
		5427.76	51.26	-22.74	74	40.55	31.63	9.51	30.43	225	37	P	V
		5465.92	50.08	-18.12	68.2	39.22	31.7	9.59	30.43	225	37	P	V
		5413.6	41.26	-12.74	54	30.57	31.63	9.49	30.43	225	37	A	V
	*	5580	109.01	-	-	97.88	31.8	9.81	30.48	225	37	P	V
	*	5580	101.6	-	-	90.47	31.8	9.81	30.48	225	37	A	V
		5745.155	49.65	-18.55	68.2	38.37	32	9.86	30.58	225	37	P	V



<b>802.11a CH 140 5700MHz</b>	*	5700	105.07	-	-	93.96	31.8	9.86	30.55	208	291	P	H
	*	5700	97.22	-	-	86.11	31.8	9.86	30.55	208	291	A	H
		5725.24	62.13	-6.07	68.2	50.91	31.93	9.86	30.57	208	291	P	H
													H
													H
													H
	*	5700	106.33	-	-	95.22	31.8	9.86	30.55	218	32	P	V
	*	5700	99.04	-	-	87.93	31.8	9.86	30.55	218	32	A	V
		5725.96	64.69	-3.51	68.2	53.47	31.93	9.86	30.57	218	32	P	V
													V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 100 5500MHz		11000	49.21	-24.79	74	59.65	40.4	13.86	64.7	100	0	P	H
		16500	48.16	-20.04	68.2	52.91	38.6	17.55	60.9	100	0	P	H
													H
		11000	49.38	-24.62	74	59.82	40.4	13.86	64.7	100	0	P	V
		16500	50	-18.2	68.2	54.75	38.6	17.55	60.9	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	49.6	-24.4	74	60.13	39.93	14.14	64.6	100	0	P	H
		16740	51.61	-16.59	68.2	54.91	39.78	17.92	61	100	0	P	H
													H
		11160	49.81	-24.19	74	60.34	39.93	14.14	64.6	100	0	P	V
		16740	53.1	-15.1	68.2	56.4	39.78	17.92	61	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	48.67	-25.33	74	58.6	40	14.53	64.46	400	0	P	H
		17100	50.86	-17.34	68.2	53.1	40.5	18.24	60.98	100	0	P	H
													H
		11400	48.96	-25.04	74	58.89	40	14.53	64.46	400	0	P	V
		17100	50.34	-17.86	68.2	52.58	40.5	18.24	60.98	100	0	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n  HT20  CH 100  5500MHz		5452.24	56.23	-17.77	74	45.4	31.7	9.56	30.43	215	291	P	H
		5469.2	62.68	-5.52	68.2	51.82	31.7	9.59	30.43	215	291	P	H
		5459.92	43.03	-10.97	54	32.18	31.7	9.58	30.43	215	291	A	H
	*	5500	105.43	-	-	94.5	31.7	9.66	30.43	215	291	P	H
	*	5500	97.76	-	-	86.83	31.7	9.66	30.43	215	291	A	H
													H
		5456.4	56.47	-17.53	74	45.63	31.7	9.57	30.43	221	30	P	V
		5466.8	62.65	-5.55	68.2	51.79	31.7	9.59	30.43	221	30	P	V
		5459.92	43.29	-10.71	54	32.44	31.7	9.58	30.43	221	30	A	V
	*	5500	106.59	-	-	95.66	31.7	9.66	30.43	221	30	P	V
	*	5500	98.61	-	-	87.68	31.7	9.66	30.43	221	30	A	V
													V
802.11n  HT20  CH 116  5580MHz		5422.48	51.41	-22.59	74	40.71	31.63	9.5	30.43	211	287	P	H
		5465.44	50.79	-17.41	68.2	39.93	31.7	9.59	30.43	211	287	P	H
		5459.68	41.41	-12.59	54	30.56	31.7	9.58	30.43	211	287	A	H
	*	5580	108.68	-	-	97.55	31.8	9.81	30.48	211	287	P	H
	*	5580	100.87	-	-	89.74	31.8	9.81	30.48	211	287	A	H
		5726.255	49	-19.2	68.2	37.78	31.93	9.86	30.57	211	287	P	H
		5428.72	50.37	-23.63	74	39.61	31.67	9.52	30.43	218	27	P	V
		5467.36	49.89	-18.31	68.2	39.03	31.7	9.59	30.43	218	27	P	V
		5458.24	41.54	-12.46	54	30.7	31.7	9.57	30.43	218	27	A	V
	*	5580	109.28	-	-	98.15	31.8	9.81	30.48	218	27	P	V
	*	5580	101.66	-	-	90.53	31.8	9.81	30.48	218	27	A	V
		5748.62	49.77	-18.43	68.2	38.49	32	9.86	30.58	218	27	P	V



802.11n HT20 CH 140 5700MHz	*	5700	103.89	-	-	92.78	31.8	9.86	30.55	211	291	P	H
	*	5700	96.67	-	-	85.56	31.8	9.86	30.55	211	291	A	H
		5726.84	62.5	-5.7	68.2	51.28	31.93	9.86	30.57	211	291	P	H
													H
													H
													H
													V
	*	5700	105.08	-	-	93.97	31.8	9.86	30.55	232	28	P	V
	*	5700	97.79	-	-	86.68	31.8	9.86	30.55	232	28	A	V
		5727.56	64.31	-3.89	68.2	53.09	31.93	9.86	30.57	232	28	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT20 CH 100 5500MHz	1	11000	48.92	-25.08	74	59.36	40.4	13.86	64.7	100	0	P	H
		16500	48.47	-19.73	68.2	53.22	38.6	17.55	60.9	100	0	P	H
													H
													H
		11000	50.1	-23.9	74	60.54	40.4	13.86	64.7	100	0	P	V
		16500	50.08	-18.12	68.2	54.83	38.6	17.55	60.9	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	49.56	-24.44	74	60.09	39.93	14.14	64.6	100	0	P	H
		16740	51.22	-16.98	68.2	54.52	39.78	17.92	61	100	0	P	H
													H
													H
		11160	49.34	-24.66	74	59.87	39.93	14.14	64.6	100	0	P	V
		16740	52.9	-15.3	68.2	56.2	39.78	17.92	61	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	49.41	-24.59	74	59.34	40	14.53	64.46	100	0	P	H
		17100	50.3	-17.9	68.2	52.54	40.5	18.24	60.98	100	0	P	H
													H
													H
		11400	48.38	-25.62	74	58.31	40	14.53	64.46	100	0	P	V
		17100	50.86	-17.34	68.2	53.1	40.5	18.24	60.98	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n  HT40  CH 102  5510MHz		5457.28	57.64	-16.36	74	46.8	31.7	9.57	30.43	215	292	P	H
		5470	63.56	-4.64	68.2	52.69	31.7	9.6	30.43	215	292	P	H
		5457.28	44.44	-9.56	54	33.6	31.7	9.57	30.43	215	292	A	H
	*	5510	102.36	-	-	91.43	31.7	9.67	30.44	215	292	P	H
	*	5510	93.96	-	-	83.03	31.7	9.67	30.44	215	292	A	H
		5761.22	49.4	-18.8	68.2	38.05	32.07	9.87	30.59	215	292	P	H
		5457.52	58.9	-15.1	74	48.06	31.7	9.57	30.43	211	13	P	V
		5469.76	63.99	-4.21	68.2	53.12	31.7	9.6	30.43	211	13	P	V
		5458.96	44.94	-9.06	54	34.1	31.7	9.57	30.43	211	13	A	V
	*	5510	103.16	-	-	92.23	31.7	9.67	30.44	211	13	P	V
	*	5510	94.63	-	-	83.7	31.7	9.67	30.44	211	13	A	V
		5745.47	51.19	-17.01	68.2	39.91	32	9.86	30.58	211	13	P	V
802.11n  HT40  CH 110  5550MHz		5447.68	53.68	-20.32	74	42.86	31.7	9.55	30.43	215	289	P	H
		5466.88	55.99	-12.21	68.2	45.13	31.7	9.59	30.43	215	289	P	H
		5459.92	44.48	-9.52	54	33.63	31.7	9.58	30.43	215	289	A	H
	*	5550	105.53	-	-	94.44	31.8	9.75	30.46	215	289	P	H
	*	5550	97.96	-	-	86.87	31.8	9.75	30.46	215	289	A	H
		5742.635	49.44	-18.76	68.2	38.16	32	9.86	30.58	215	289	P	H
		5442.64	52.52	-21.48	74	41.74	31.67	9.54	30.43	212	353	P	V
		5466.64	55.77	-12.43	68.2	44.91	31.7	9.59	30.43	212	353	P	V
		5458.96	44.01	-9.99	54	33.17	31.7	9.57	30.43	212	353	A	V
	*	5550	105.79	-	-	94.7	31.8	9.75	30.46	212	353	P	V
	*	5550	98.35	-	-	87.26	31.8	9.75	30.46	212	353	A	V
		5748.935	49.8	-18.4	68.2	38.52	32	9.86	30.58	212	353	P	V



802.11n HT40 CH 134 5670MHz	*	5670	104.44	-	-	93.37	31.75	9.86	30.54	227	291	P	H
	*	5670	96.58	-	-	85.51	31.75	9.86	30.54	227	291	A	H
		5726.885	59.15	-9.05	68.2	47.93	31.93	9.86	30.57	227	291	P	H
	*	5670	105.55	-	-	94.48	31.75	9.86	30.54	218	32	P	V
	*	5670	97.37	-	-	86.3	31.75	9.86	30.54	218	32	A	V
<b>Remark</b>													
1. No other spurious found.													
2. All results are PASS against Peak and Average limit line.													



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT40 CH 102 5510MHz	1	11020	49.19	-24.81	74	59.66	40.33	13.89	64.69	100	0	P	H
		16530	48.27	-19.93	68.2	52.88	38.7	17.6	60.91	100	0	P	H
													H
													H
		11020	49.62	-24.38	74	60.09	40.33	13.89	64.69	100	0	P	V
		16530	48.69	-19.51	68.2	53.3	38.7	17.6	60.91	100	0	P	V
													V
802.11n HT40 CH 110 5550MHz		11100	48.95	-25.05	74	59.61	40	13.98	64.64	100	0	P	H
		16650	47.51	-20.69	68.2	51.45	39.2	17.82	60.96	100	0	P	H
													H
													H
		11100	48.63	-25.37	74	59.29	40	13.98	64.64	100	0	P	V
		16650	48.2	-20	68.2	52.14	39.2	17.82	60.96	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	47.26	-26.74	74	57.36	39.87	14.53	64.5	100	0	P	H
		17010	50.61	-17.59	68.2	53.11	40.5	18.09	61.09	100	0	P	H
													H
													H
		11340	47.85	-26.15	74	57.95	39.87	14.53	64.5	100	0	P	V
		17010	49.36	-18.84	68.2	51.86	40.5	18.09	61.09	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT80 CH 106 5530MHz		5459.68	58.15	-15.85	74	47.3	31.7	9.58	30.43	212	292	P	H
		5469.76	56.76	-11.44	68.2	45.89	31.7	9.6	30.43	212	292	P	H
		5459.44	46.23	-7.77	54	35.38	31.7	9.58	30.43	212	292	A	H
	*	5530	99.66	-	-	88.67	31.73	9.71	30.45	212	292	P	H
	*	5530	90.73	-	-	79.74	31.73	9.71	30.45	212	292	A	H
		5753.975	49.54	-18.66	68.2	38.19	32.07	9.87	30.59	212	292	P	H
		5459.44	56.49	-17.51	74	45.64	31.7	9.58	30.43	223	13	P	V
		5468.08	58.41	-9.79	68.2	47.55	31.7	9.59	30.43	223	13	P	V
		5458.72	49.15	-4.85	54	38.31	31.7	9.57	30.43	223	13	A	V
	*	5530	98.61	-	-	87.62	31.73	9.71	30.45	223	13	P	V
	*	5530	91.32	-	-	80.33	31.73	9.71	30.45	223	13	A	V
		5757.755	50.27	-17.93	68.2	38.92	32.07	9.87	30.59	223	13	P	V
802.11ac VHT80 CH 122 5610MHz		5456.08	52.95	-21.05	74	42.11	31.7	9.57	30.43	211	288	P	H
		5469.28	54.59	-13.61	68.2	43.72	31.7	9.6	30.43	211	288	P	H
		5458.24	46	-8	54	35.16	31.7	9.57	30.43	211	288	A	H
	*	5610	101.07	-	-	89.92	31.8	9.85	30.5	211	288	P	H
	*	5610	93.84	-	-	82.69	31.8	9.85	30.5	211	288	A	H
		5737.91	54.62	-13.58	68.2	43.34	32	9.86	30.58	211	288	P	H
		5456.32	52.72	-21.28	74	41.88	31.7	9.57	30.43	223	31	P	V
		5464.72	53.58	-14.62	68.2	42.72	31.7	9.59	30.43	223	31	P	V
		5458.48	45.54	-8.46	54	34.7	31.7	9.57	30.43	223	31	A	V
	*	5610	101.84	-	-	90.69	31.8	9.85	30.5	223	31	P	V
	*	5610	94.75	-	-	83.6	31.8	9.85	30.5	223	31	A	V
		5733.815	53.71	-14.49	68.2	42.49	31.93	9.86	30.57	223	31	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ac VHT80 CH 106 5530MHz	1	11060	48.03	-25.97	74	58.62	40.13	13.94	64.66	100	0	P	H
		16590	48.58	-19.62	68.2	52.96	38.85	17.71	60.94	100	0	P	H
													H
													H
		11060	48.25	-25.75	74	58.84	40.13	13.94	64.66	100	0	P	V
		16590	48.22	-19.98	68.2	52.6	38.85	17.71	60.94	100	0	P	V
													V
802.11ac VHT80 CH 122 5610MHz		11220	46.87	-27.13	74	57.24	39.88	14.32	64.57	100	0	P	H
		16830	49.13	-19.07	68.2	52	40.2	17.96	61.03	100	0	P	H
													H
													H
		11220	47.24	-26.76	74	57.61	39.88	14.32	64.57	100	0	P	V
		16830	48.93	-19.27	68.2	51.8	40.2	17.96	61.03	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

## WIFI 802.11ac VHT80 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	(dB $\mu$ V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ac VHT80 LF		54.25	31.51	-8.49	40	50.38	12.73	0.98	32.58	100	0	P	H
		159.98	27.08	-16.42	43.5	41.3	16.5	1.78	32.5			P	H
		195.87	32.67	-10.83	43.5	48.34	14.89	1.93	32.49			P	H
		334.58	35.46	-10.54	46	45.64	19.98	2.38	32.54			P	H
		721.61	34.26	-11.74	46	35.89	27.26	3.47	32.36			P	H
		950.53	33.76	-12.24	46	29.99	30.91	4.07	31.21			P	H
													H
													H
													H
													H
													H
													H
													H
													V
		44.55	31.27	-8.73	40	45.77	17.23	0.87	32.6			P	V
		94.99	22.09	-21.41	43.5	37.99	15.3	1.32	32.52			P	V
		191.99	26.35	-17.15	43.5	42.11	14.8	1.93	32.49			P	V
		296.75	30.86	-15.14	46	41.89	19.24	2.27	32.54			P	V
		745.86	33.96	-12.04	46	34.51	28.23	3.53	32.31			P	V
		905.91	38.58	-7.42	46	37.06	29.14	3.98	31.6	100	0	P	V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



## Band 2 - 5250~5350MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ac		5084.32	50.74	-23.26	74	40.09	31.9	9.18	30.43	100	235	P	H
		5119.68	43.84	-10.16	54	33.18	31.87	9.22	30.43	100	235	A	H
	*	5290	97.37	-	-	87.02	31.4	9.38	30.43	100	235	P	H
	*	5290	90.27	-	-	79.92	31.4	9.38	30.43	100	235	A	H
		5384.16	56.98	-17.02	74	46.43	31.53	9.45	30.43	100	235	P	H
		5351.52	50.67	-3.33	54	40.28	31.4	9.42	30.43	100	235	A	H
		5091.12	50.13	-23.87	74	39.47	31.9	9.19	30.43	366	304	P	V
		5142.12	43.24	-10.76	54	32.62	31.8	9.25	30.43	366	304	A	V
	*	5290	94.52	-	-	84.17	31.4	9.38	30.43	366	304	P	V
	*	5290	87.57	-	-	77.22	31.4	9.38	30.43	366	304	A	V
VHT80		5382.96	52.16	-21.84	74	41.61	31.53	9.45	30.43	366	304	P	V
		5350.08	44.57	-9.43	54	34.18	31.4	9.42	30.43	366	304	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
2		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ac		10580	47.53	-20.67	68.2	58.16	39.77	13.71	64.11	100	0	P	H	
		15870	45.52	-28.48	74	53.02	37.06	17.35	61.91	100	0	P	H	
VHT80													H	
CH 58		10580	46.81	-21.39	68.2	57.44	39.77	13.71	64.11	100	0	P	V	
5290MHz		15870	45.45	-28.55	74	52.95	37.06	17.35	61.91	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

## WIFI 802.11ac VHT80 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	(dB $\mu$ V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802. 11ac VHT80 LF		96.93	24.34	-19.16	43.5	39.84	15.68	1.33	32.51	-	-	P	H
		132.82	29.36	-14.14	43.5	42.7	17.62	1.54	32.5	-	-	P	H
		218.18	30.92	-15.08	46	46.26	15.15	2.01	32.5	-	-	P	H
		339.43	34.58	-11.42	46	44.64	20.09	2.39	32.54	-	-	P	H
		713.85	35.31	-10.69	46	37.37	26.85	3.46	32.37	-	-	P	H
		905.91	37.91	-8.09	46	36.39	29.14	3.98	31.6	100	0	P	H
													H
													H
													H
													H
													H
													V
		45.52	30.54	-9.46	40	45.53	16.74	0.87	32.6	-	-	P	V
		162.89	22.49	-21.01	43.5	36.99	16.21	1.79	32.5	-	-	P	V
		193.93	23.98	-19.52	43.5	39.73	14.8	1.94	32.49	-	-	P	V
		296.75	30.14	-15.86	46	41.17	19.24	2.27	32.54	-	-	P	V
		720.64	36.34	-9.66	46	38	27.23	3.47	32.36	-	-	P	V
		905.91	39.21	-6.79	46	37.69	29.14	3.98	31.6	100	0	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 or Average</b>
H/V	<b>Horizontal or Vertical</b>



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

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

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

#### For Peak Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB $\mu$ V) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dB $\mu$ V) – 35.86 (dB)  
= 55.45 (dB $\mu$ V/m)
2. Over Limit(dB)  
= Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)  
= 55.45(dB $\mu$ V/m) – 74(dB $\mu$ V/m)  
= -18.55(dB)

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB $\mu$ V) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dB $\mu$ V) – 35.86 (dB)  
= 43.54 (dB $\mu$ V/m)
2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)  
= 43.54(dB $\mu$ V/m) – 54(dB $\mu$ V/m)  
= -10.46(dB)

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



## Appendix D. Radiated Spurious Emission

Test Engineer :	Leo Liao, Karl Hou and Bigshow Wang	Temperature :	23~26°C
		Relative Humidity :	50~65%

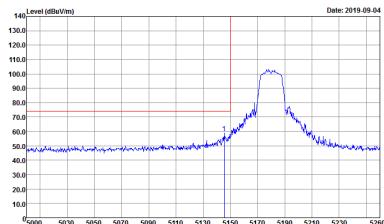
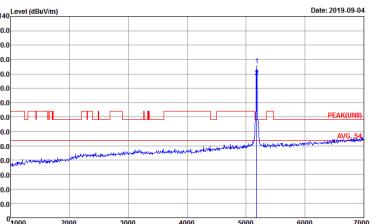
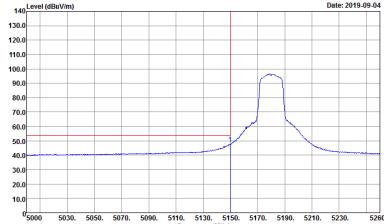
### Note symbol

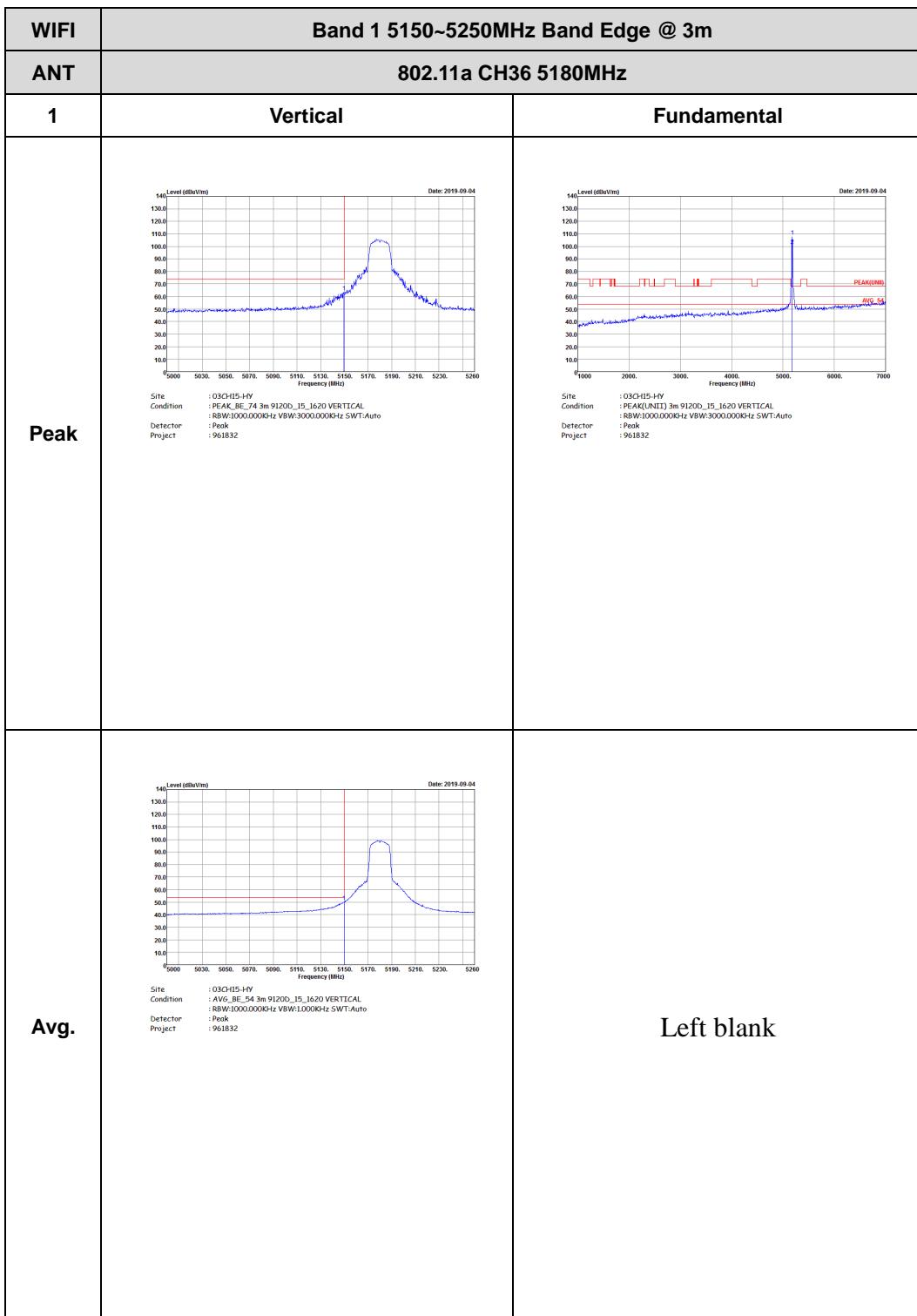
-L	<b>Low channel location</b>
-R	<b>High channel location</b>



## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

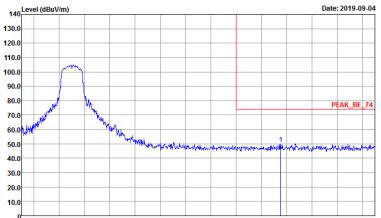
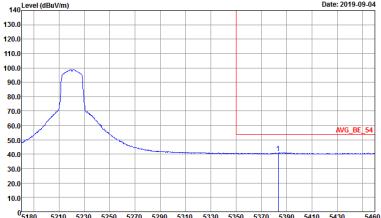
<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH36 5180MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2019-09-04 Site: 03CH15-HY Condition: PEAK_BE_74_3m_91200_15_1620_HORIZONTAL Detector: R8W:1000.000kHz VBW:3000.000kHz SWT:Auto Project: 961832</p>	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2019-09-04 Site: 03CH15-HY Condition: PEAK(I:INTT)_3m_91200_15_1620_HORIZONTAL Detector: R8W:1000.000kHz VBW:3000.000kHz SWT:Auto Project: 961832</p>
<b>Avg.</b>	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2019-09-04 Site: 03CH15-HY Condition: AVG_BE_54_3m_91200_15_1620_HORIZONTAL Detector: R8W:1000.000kHz VBW:1.000kHz SWT:Auto Project: 961832</p>	Left blank

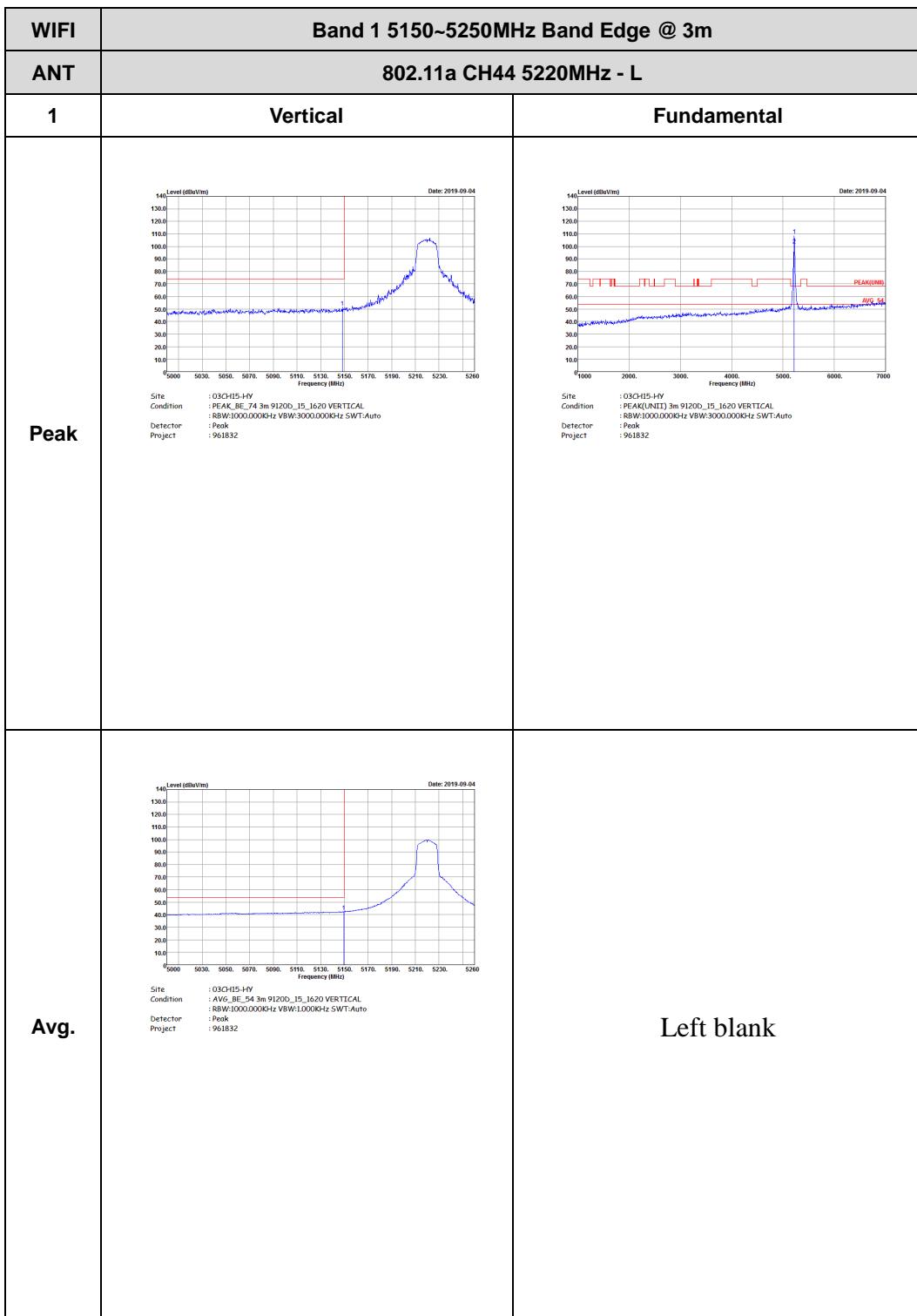




<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH44 5220MHz - L</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.0000KHz SWT:Auto Detector : Peak Project : 961832	Left blank



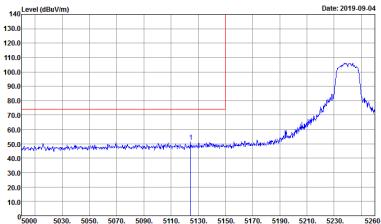
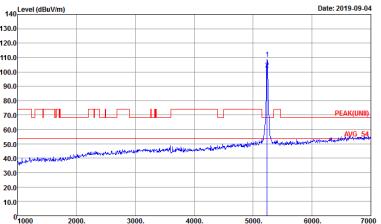
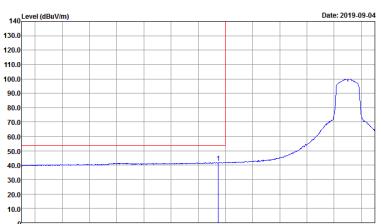
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-04</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-04</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank





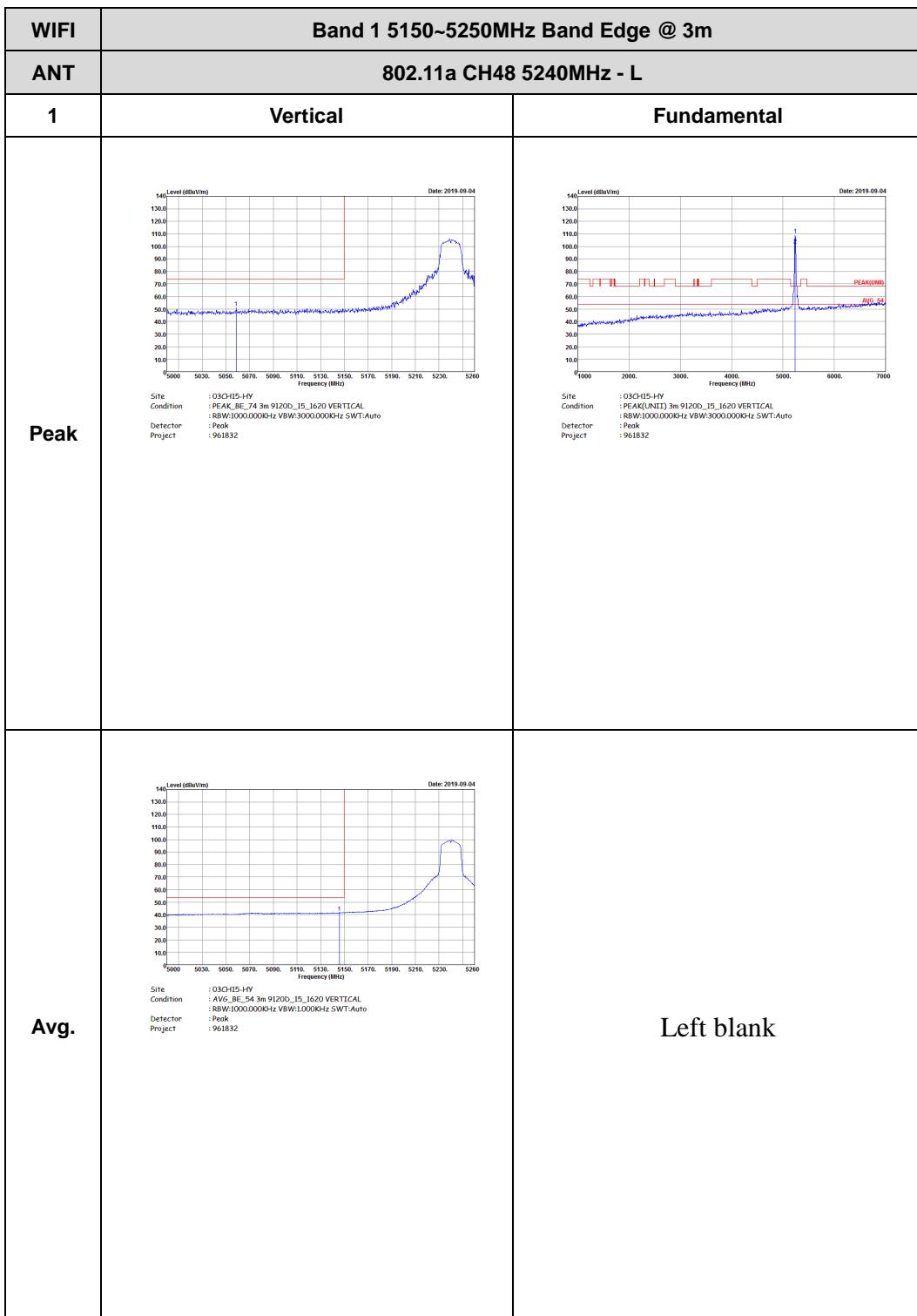
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH48 5240MHz - L</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH48 5240MHz - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
Peak	<p>Level (dBuV/m) vs Frequency (MHz) from 5180 to 5460. The plot shows a single sharp peak labeled 'PEAK_BE_74' at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2019-09-04.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	<p>Level (dBuV/m) vs Frequency (MHz) from 5180 to 5460. The plot shows a single sharp peak labeled 'AVG_BE_54' at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2019-09-04.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

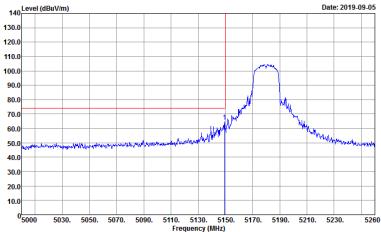
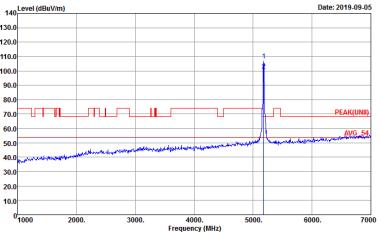
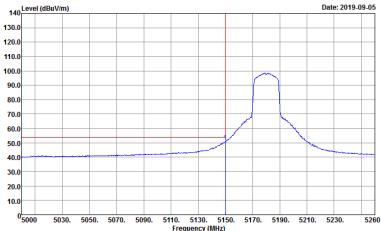




<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH48 5240MHz - R</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5180 to 5460. The graph shows a single sharp peak labeled 'PEAK_BE_74' at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5180 to 5460 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 2019-09-04</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5180 to 5460. The graph shows a broad peak labeled 'AVG_BE_54' at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5180 to 5460 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 2019-09-04</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

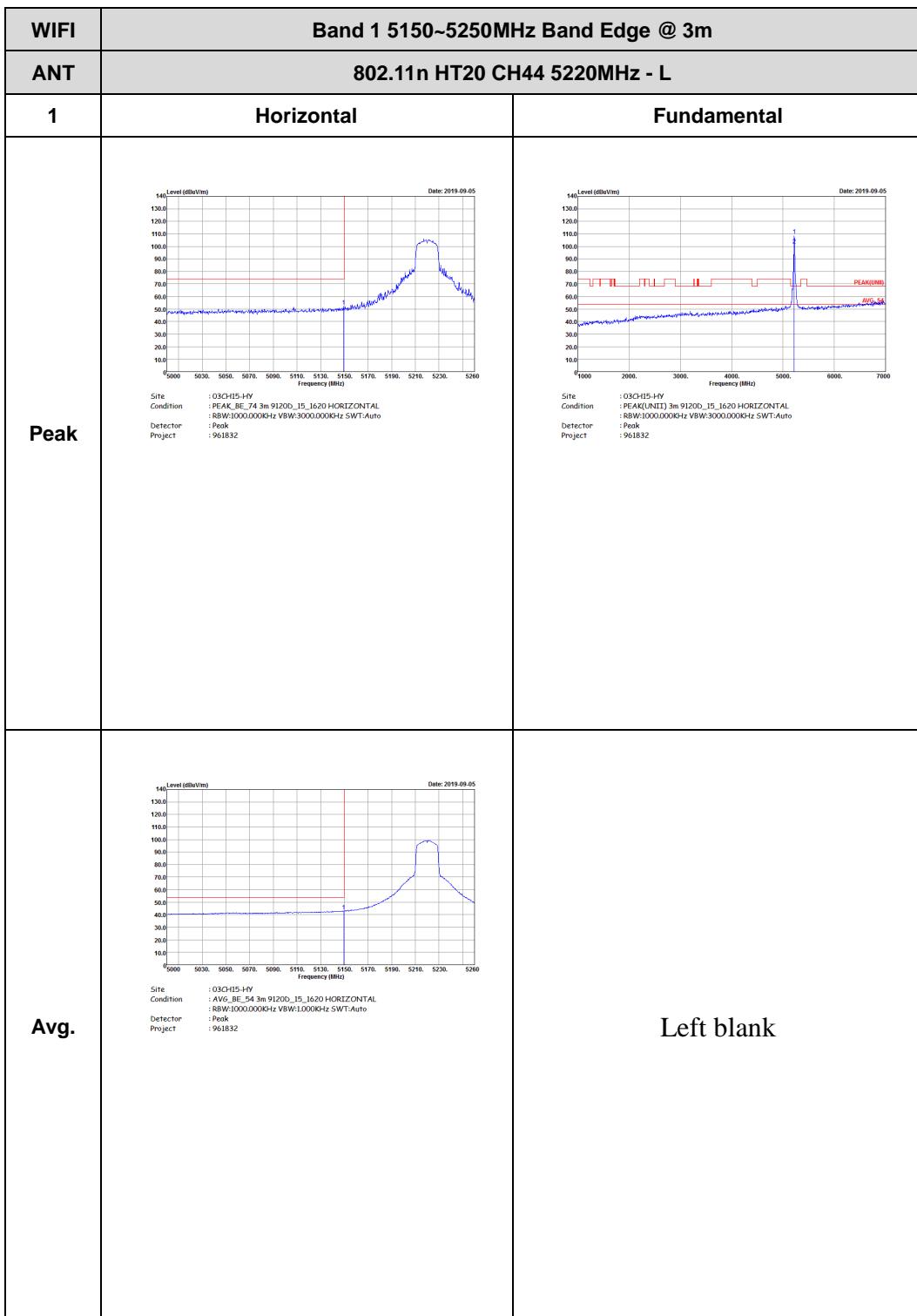


**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

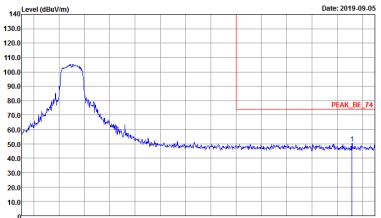
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832	 Site : 03CH15-HY Condition : PEAK(1INT) 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 961832	Left blank

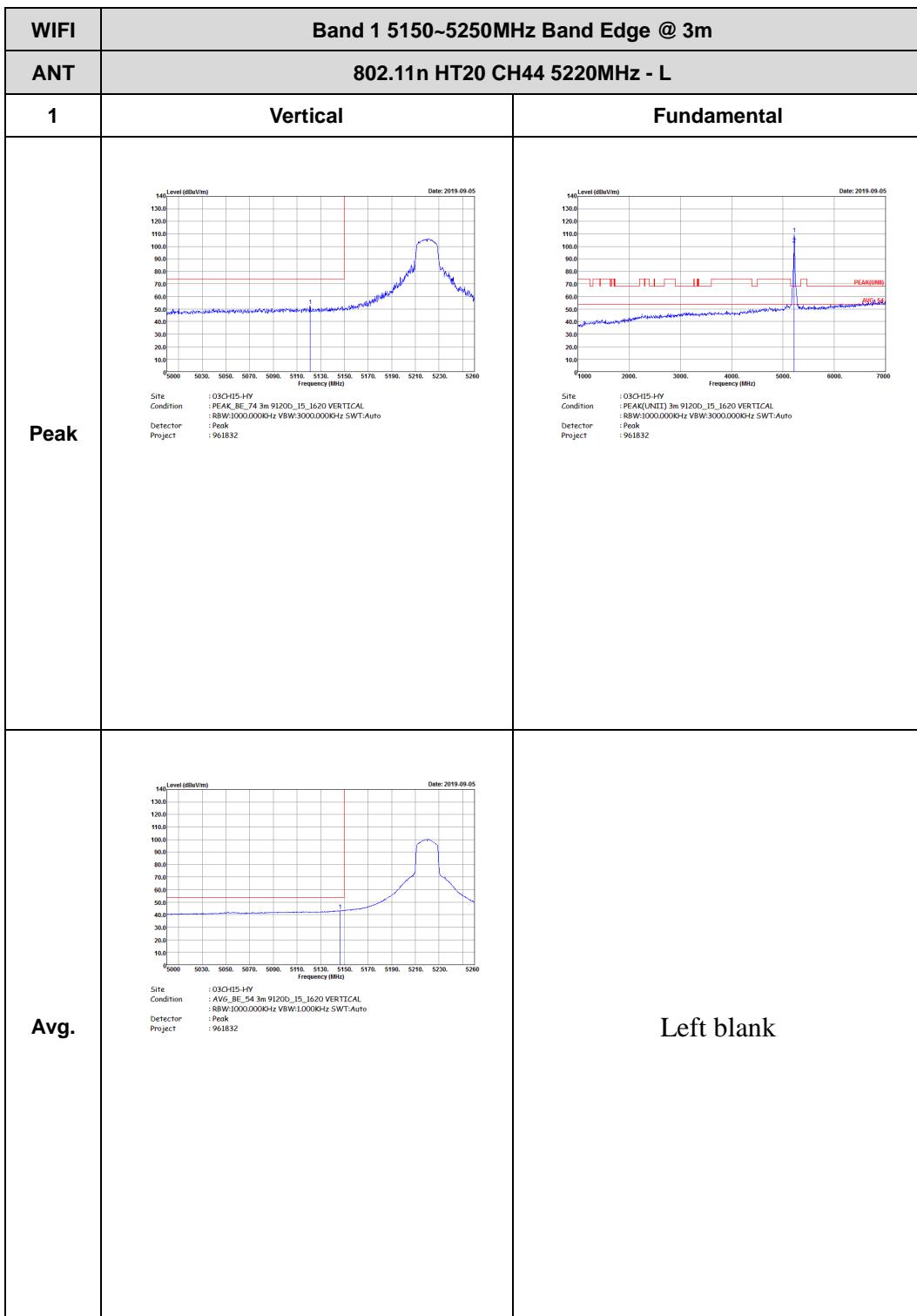


<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH36 5180MHz</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_I5_1620 VERTICAL : BW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank

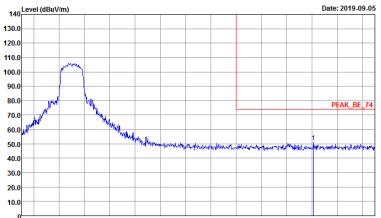
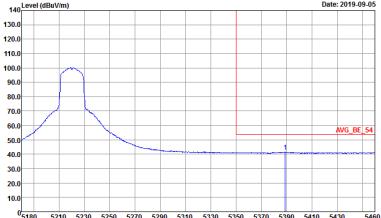




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



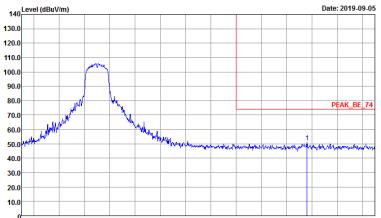
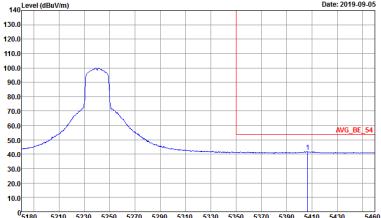


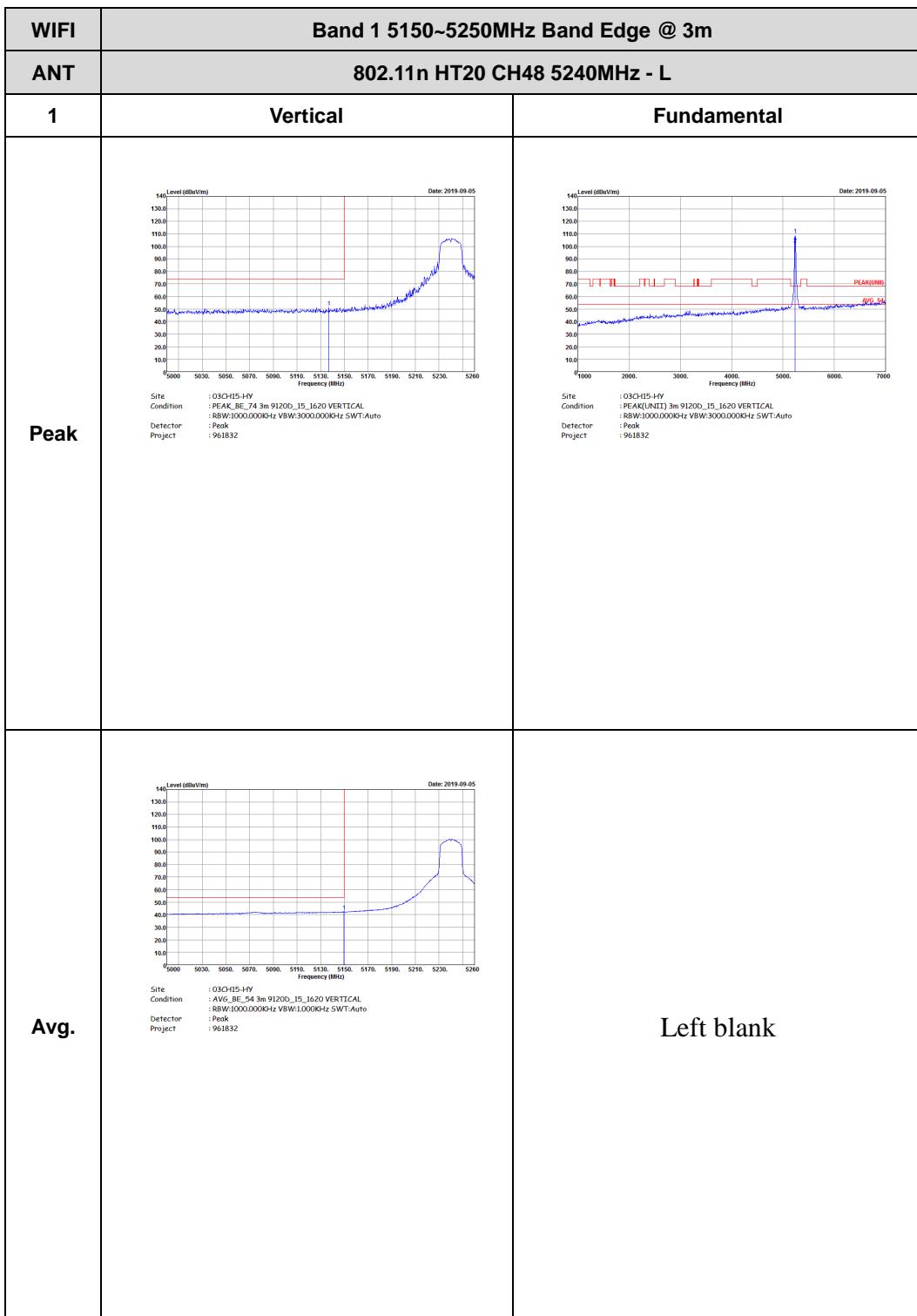
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : 8BW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : 8BW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH48 5240MHz - L</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.0000KHz SWT:Auto Detector : Peak Project : 961832	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

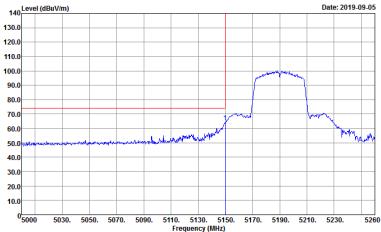
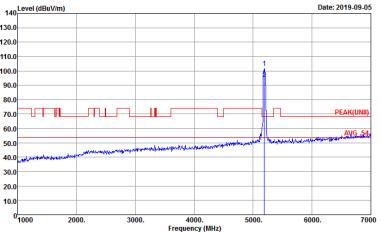
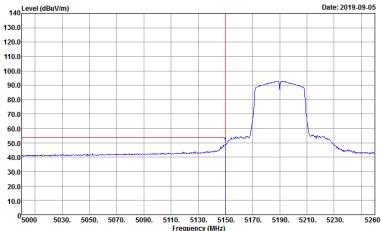




<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH48 5240MHz - R</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
Peak	 Date: 2019-09-05 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank
Avg.	 Date: 2019-09-05 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank

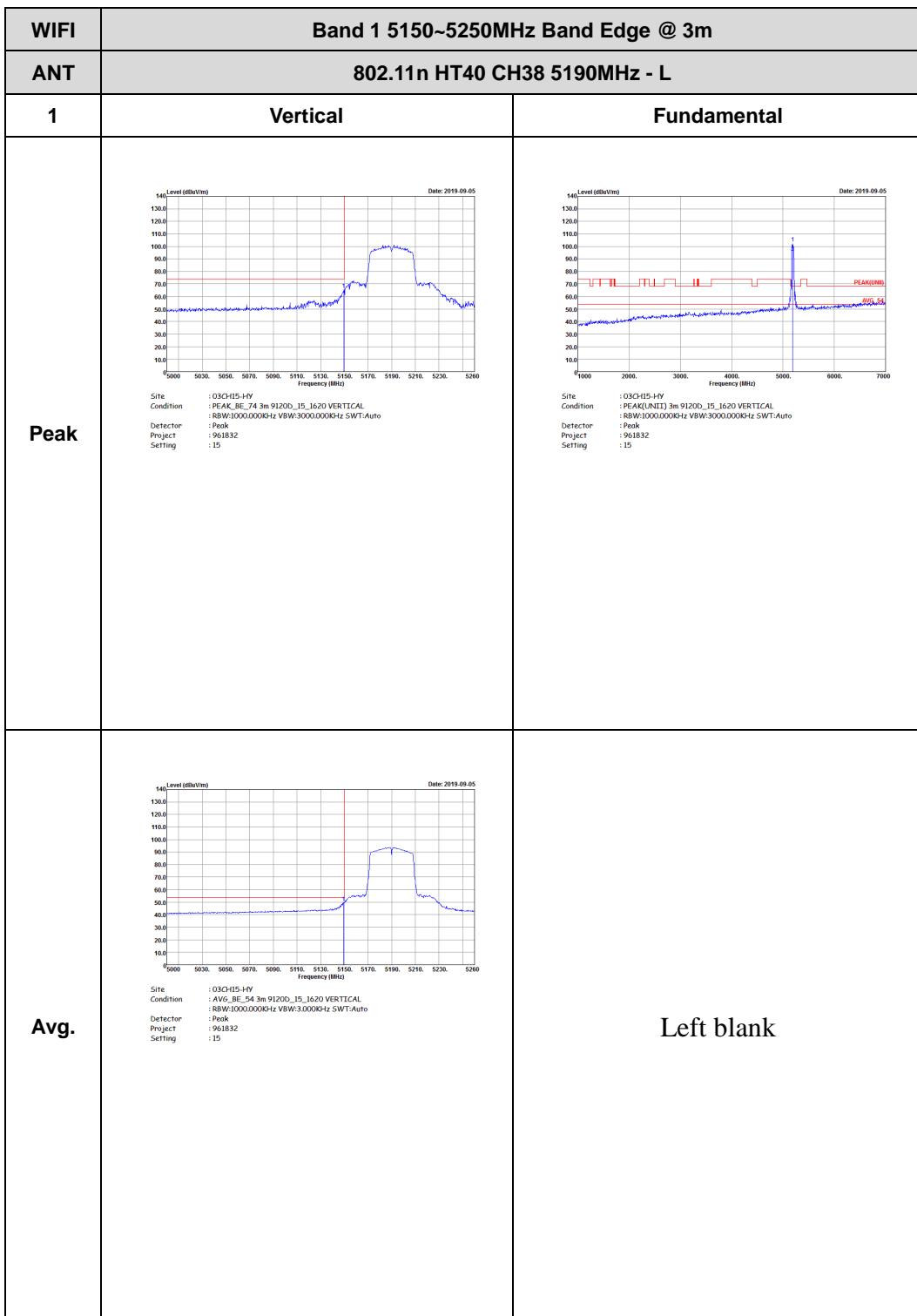


**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 15</p>	 <p>Site : 03CH15-HY Condition : PEAK(I15):INT 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 15</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 961832 Setting : 15</p>	Left blank



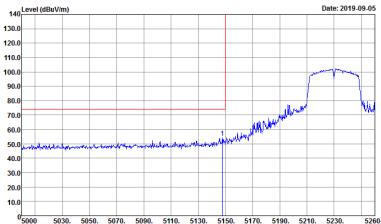
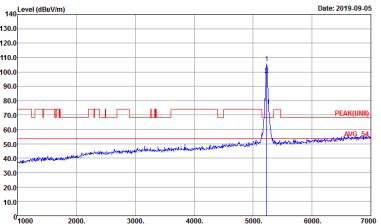
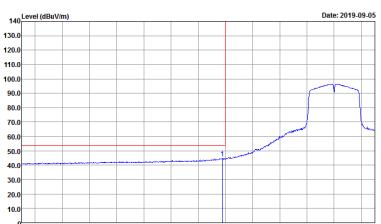
<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH38 5190MHz - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15</p>	Left blank
<b>Avg.</b>	<p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15</p>	Left blank



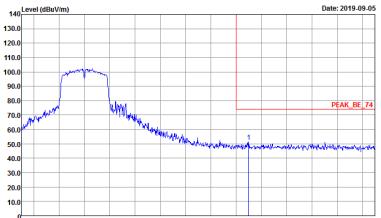
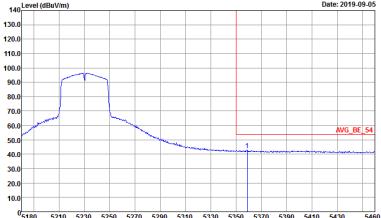


<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH38 5190MHz - R</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : 88MHz:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15	Left blank
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : 88MHz:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5260. A red line shows a flat baseline around 50 dBuV/m. A blue line shows a sharp peak reaching approximately 105 dBuV/m at 5230 MHz. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Level (dBuV/m) vs Frequency (MHz) from 1000 to 7000. A red line shows a flat baseline around 50 dBuV/m. A blue line shows a sharp peak reaching approximately 105 dBuV/m at 5230 MHz. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5260. A red line shows a flat baseline around 50 dBuV/m. A blue line shows a sharp peak reaching approximately 95 dBuV/m at 5230 MHz. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3.0000Hz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH46 5230MHz - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : 8BW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p> <p>Frequency (MHz)</p> <p>5180 5210. 5230. 5250. 5270. 5290. 5310. 5330. 5350. 5370. 5390. 5410. 5430. 5460</p> <p>Left blank</p>	
<b>Avg.</b>	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : 8BW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p> <p>Frequency (MHz)</p> <p>5180 5210. 5230. 5250. 5270. 5290. 5310. 5330. 5350. 5370. 5390. 5410. 5430. 5460</p> <p>Left blank</p>	



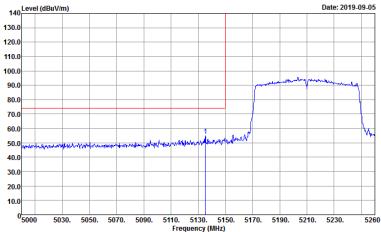
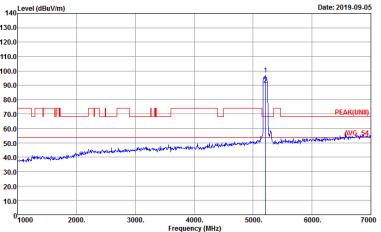
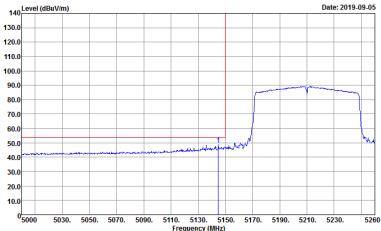
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 VERTICAL : BW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank



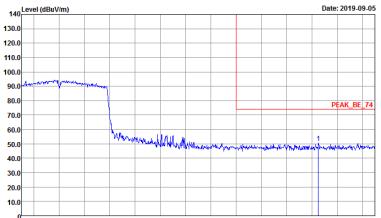
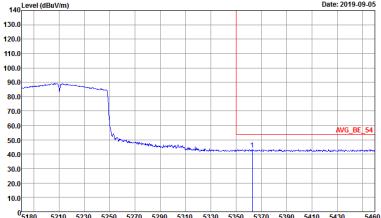
<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH46 5230MHz - R</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Level (dBmV/m) vs Frequency (MHz) from 5180 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5230 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
<b>Avg.</b>	<p>Level (dBmV/m) vs Frequency (MHz) from 5180 to 5460. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 13.5</p>	 <p>Site : 03CH15-HY Condition : PEAK(IIS:INT) 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 13.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:10.000KHz SWT:Auto Project : 961832 Setting : 13.5</p>	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH42 5210MHz - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5</p>	Left blank
<b>Avg.</b>	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5</p>	Left blank



<b>WIFI</b>	<b>Band 1 5150~5250MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH42 5210MHz - L</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 VERTICAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5	Left blank

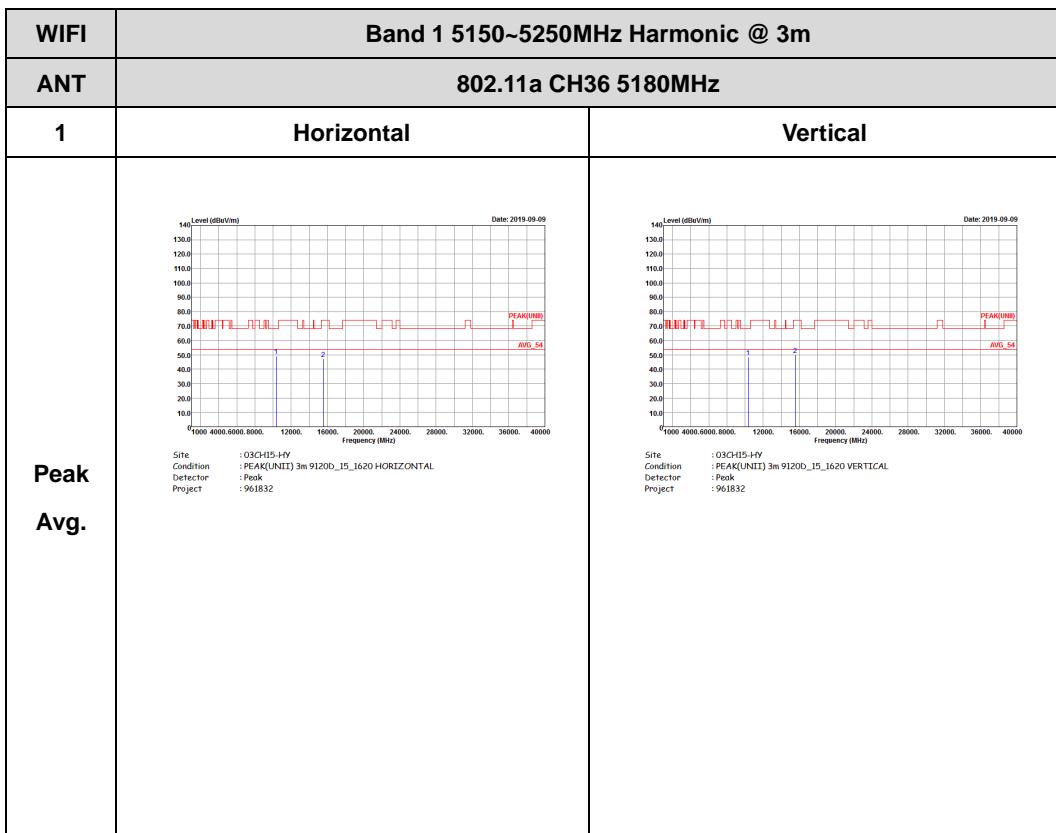


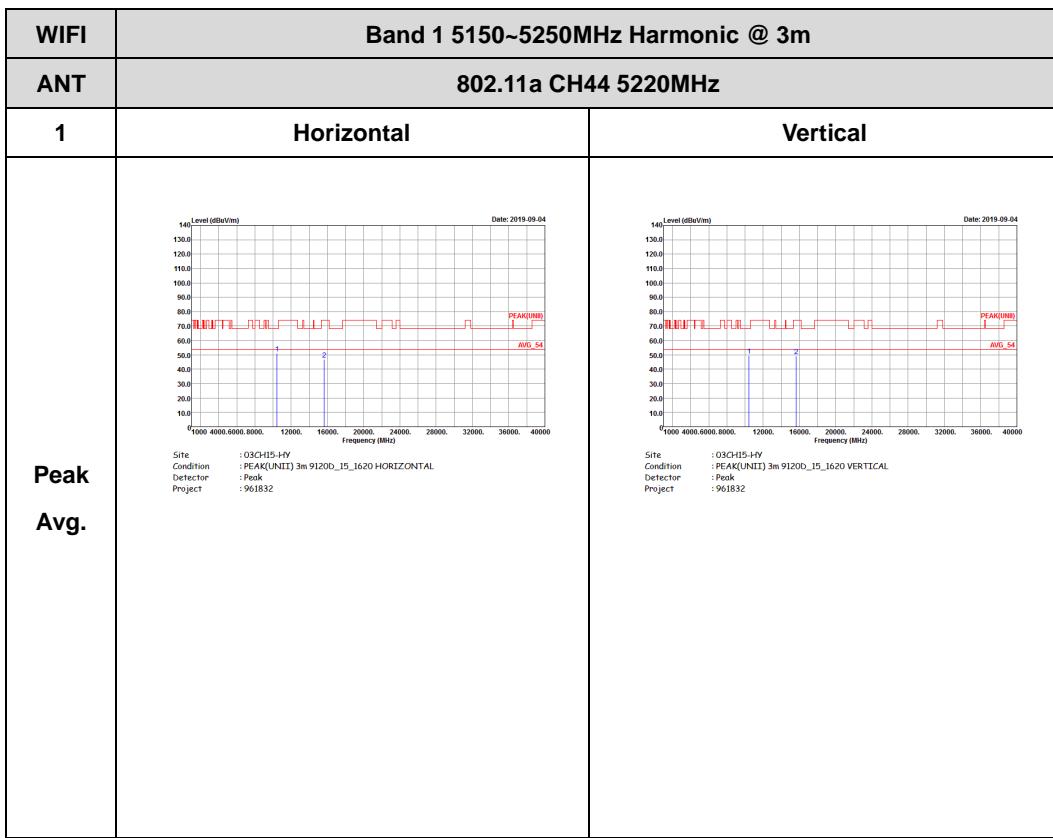
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 13.5	Left blank

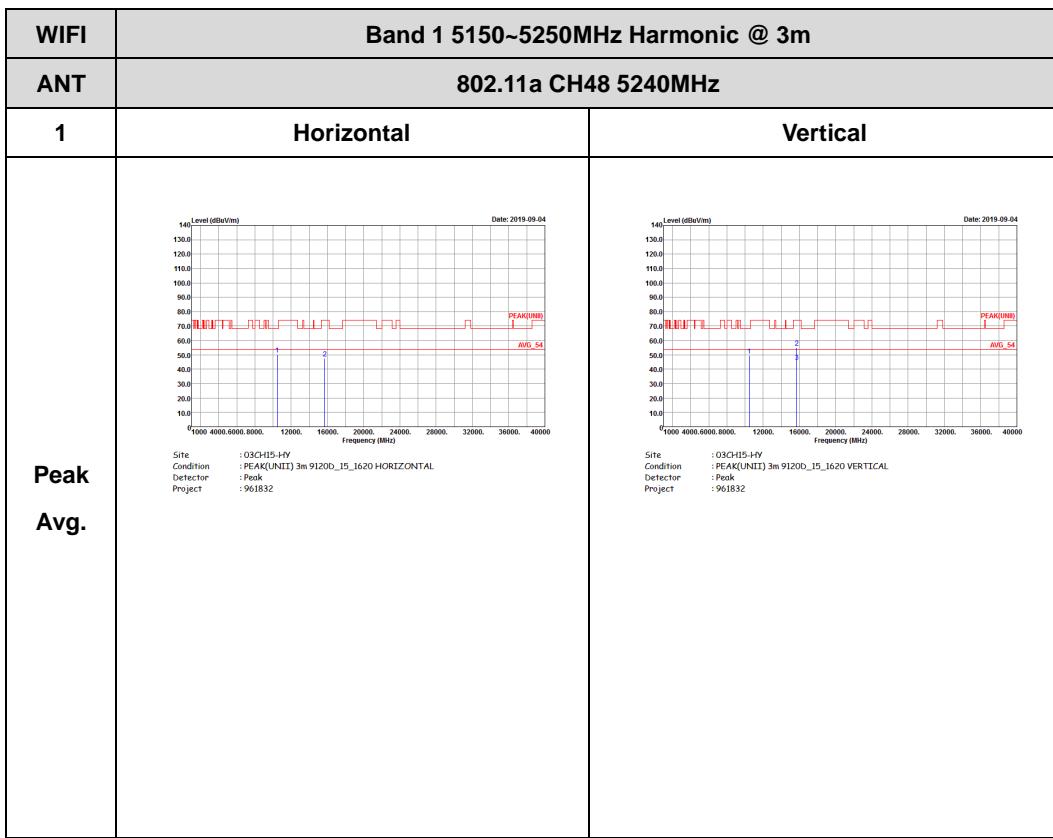


## Band 1 - 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

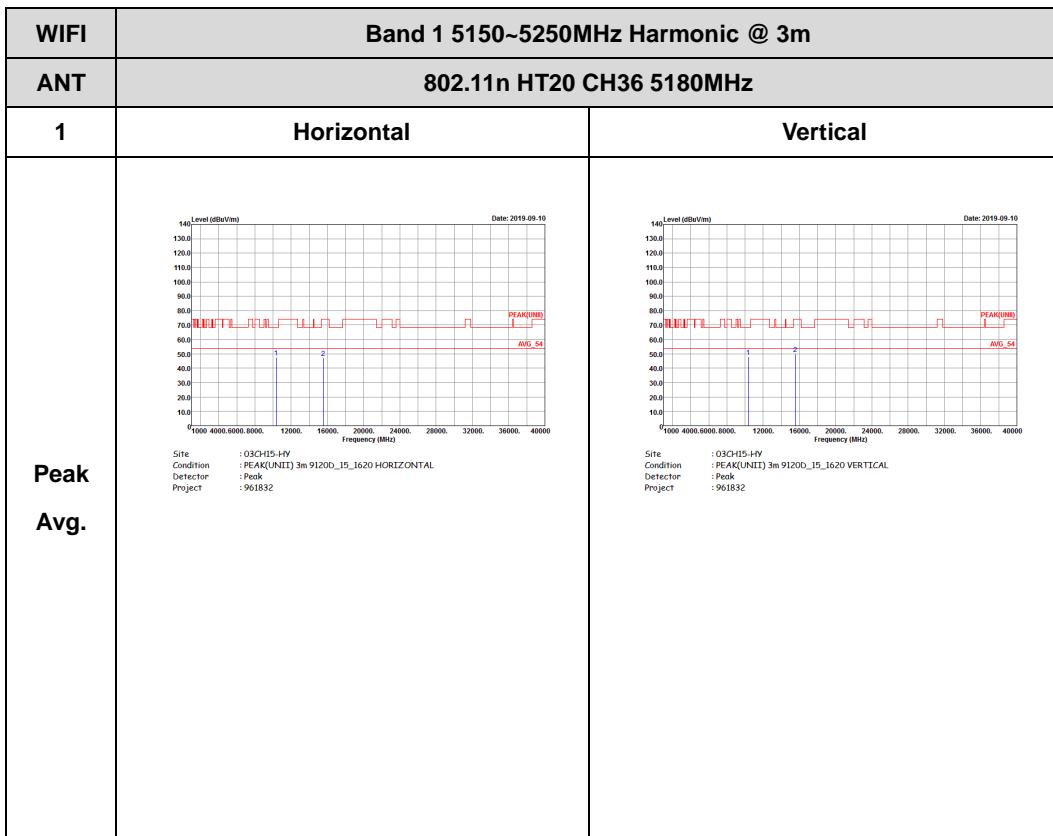


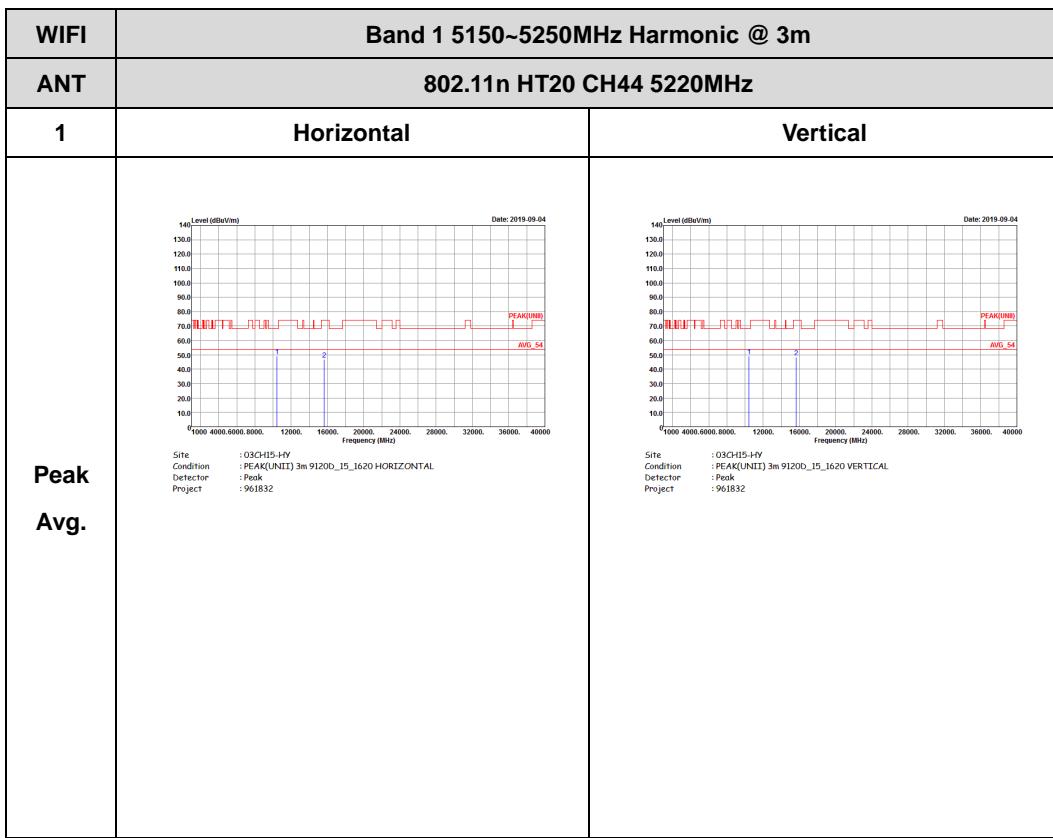


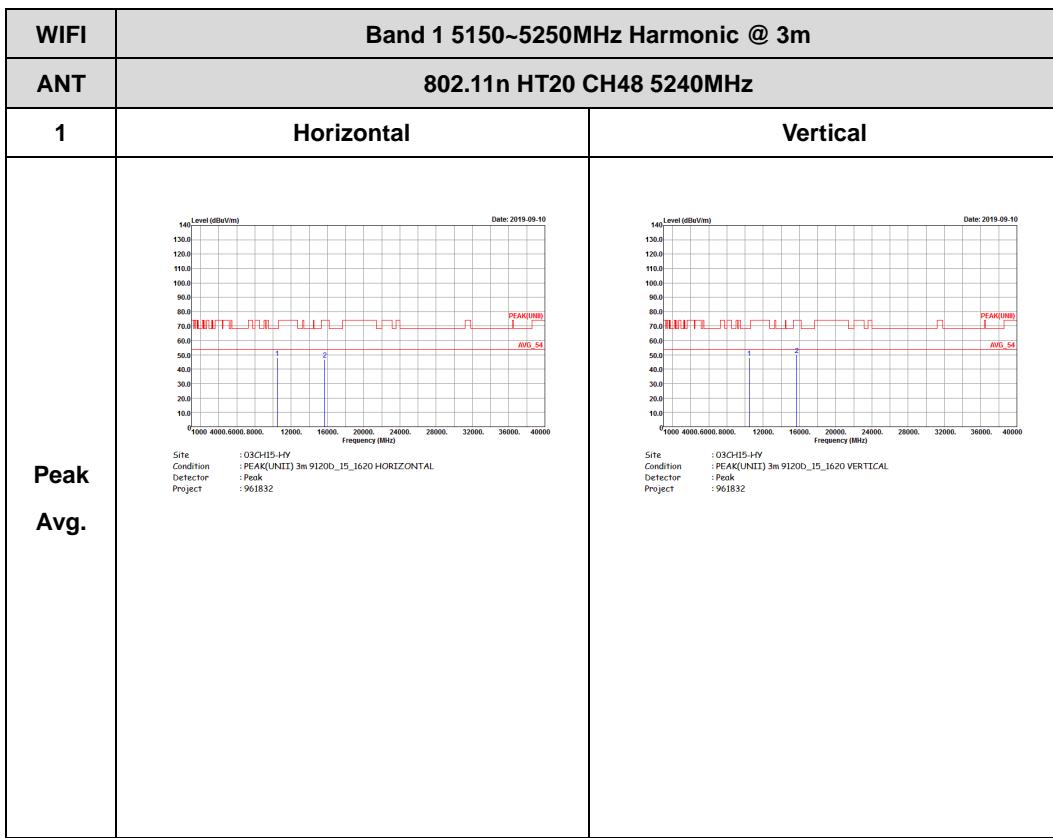




**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

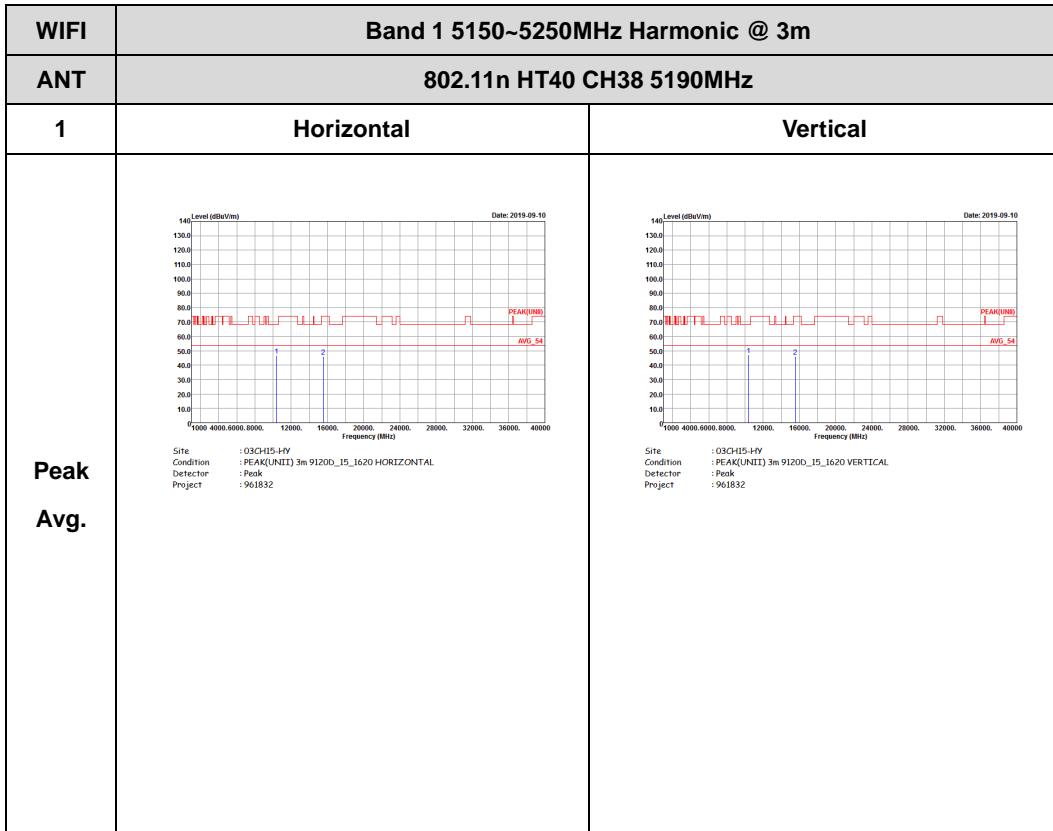


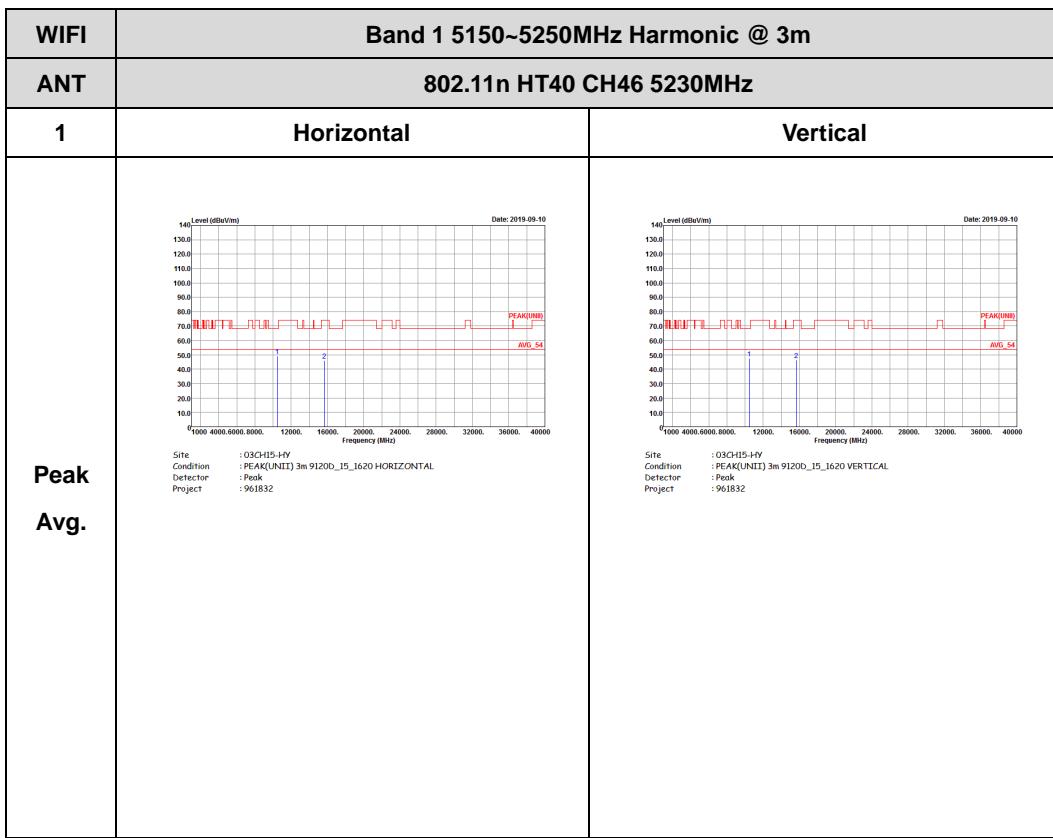






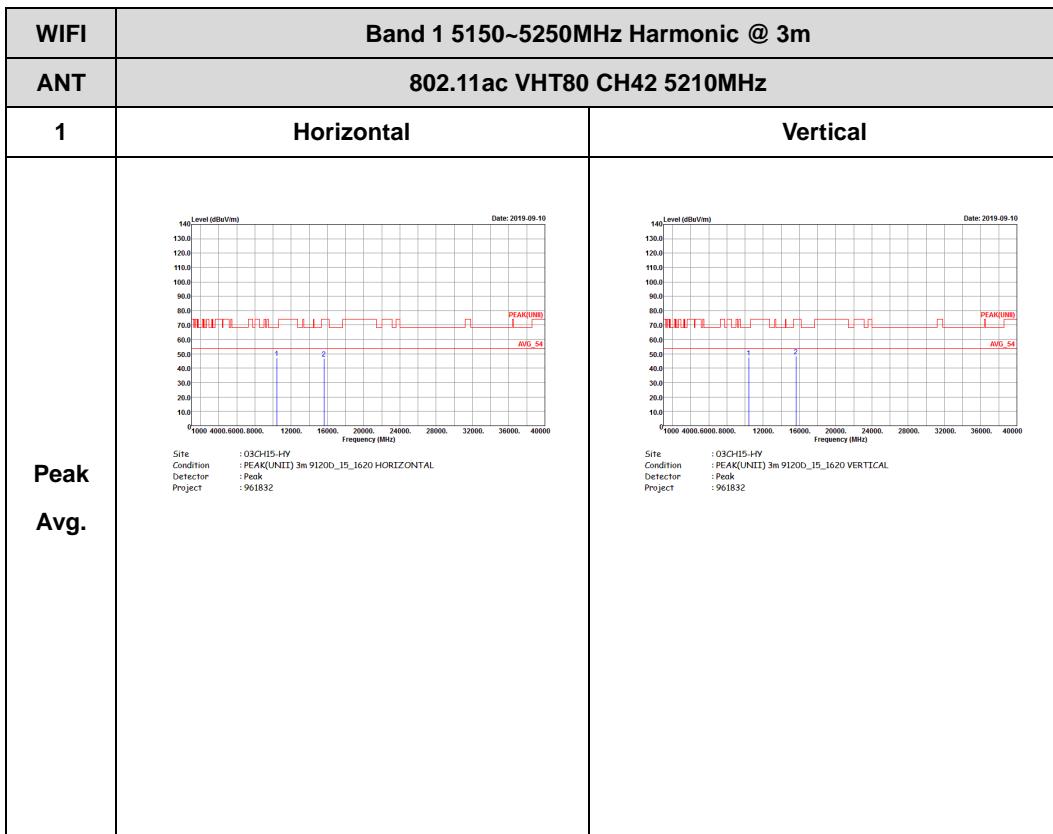
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**







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





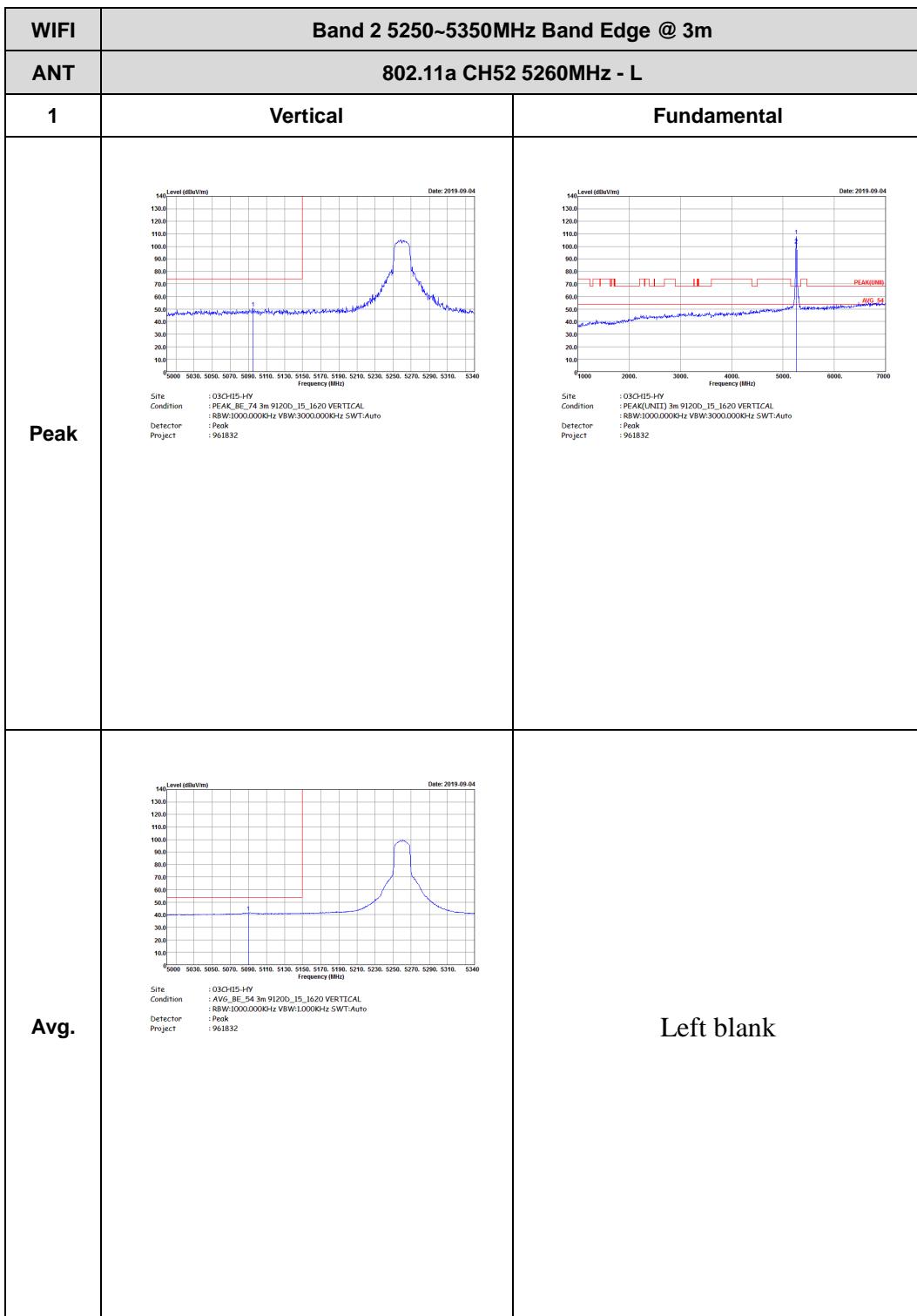
## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-H-Y Condition : PEAK_BE_74_3m_91200_15_1620_HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 961832	 Site : 03CH15-H-Y Condition : PEAK(I)INTT_3m_91200_15_1620_HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 961832
Avg.	 Site : AVG_BE_54_3m_91200_15_1620_HORIZONTAL Condition : R8W:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 961832	Left blank

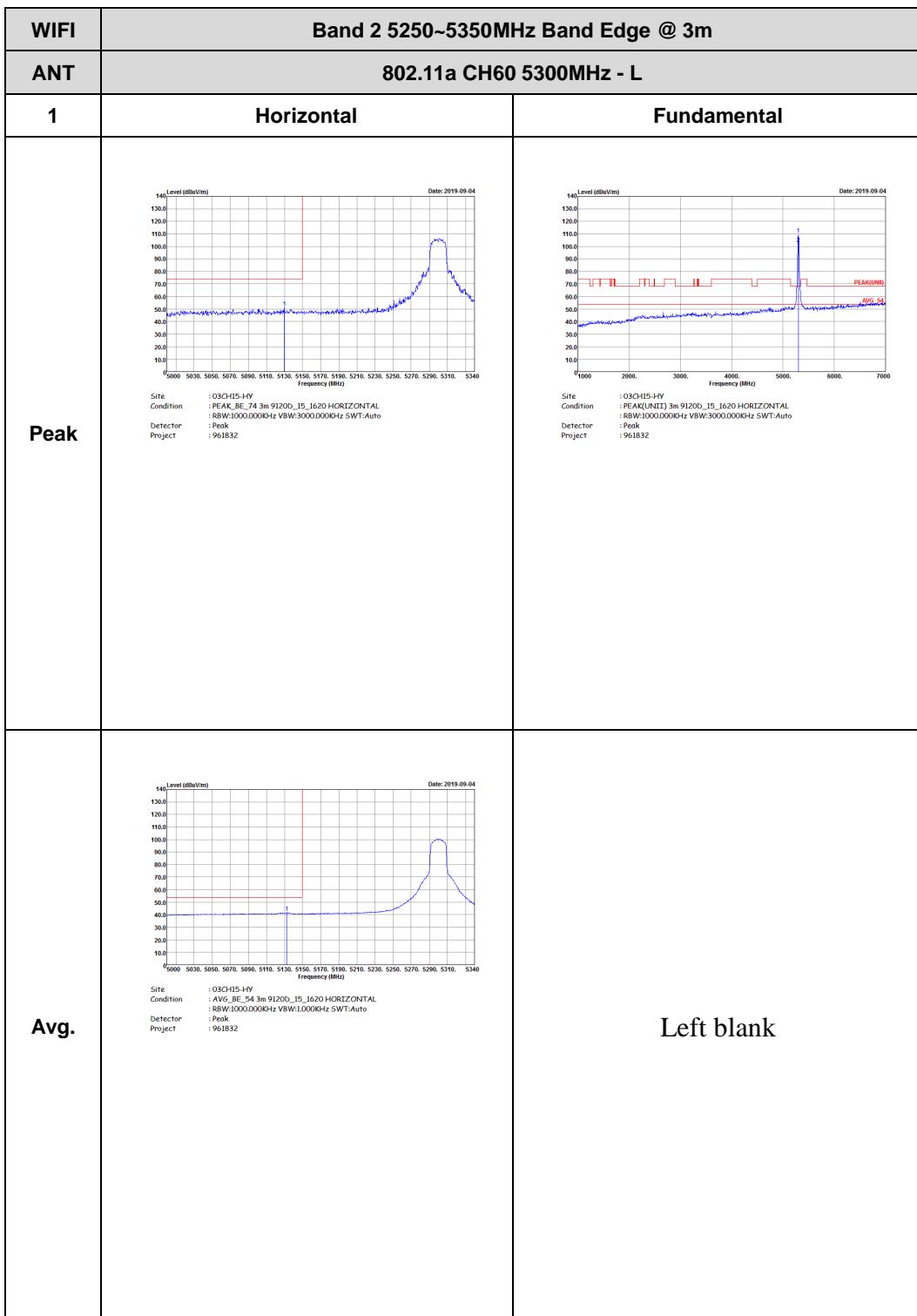


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Date: 2019-09-04 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank
Avg.	 Date: 2019-09-04 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank



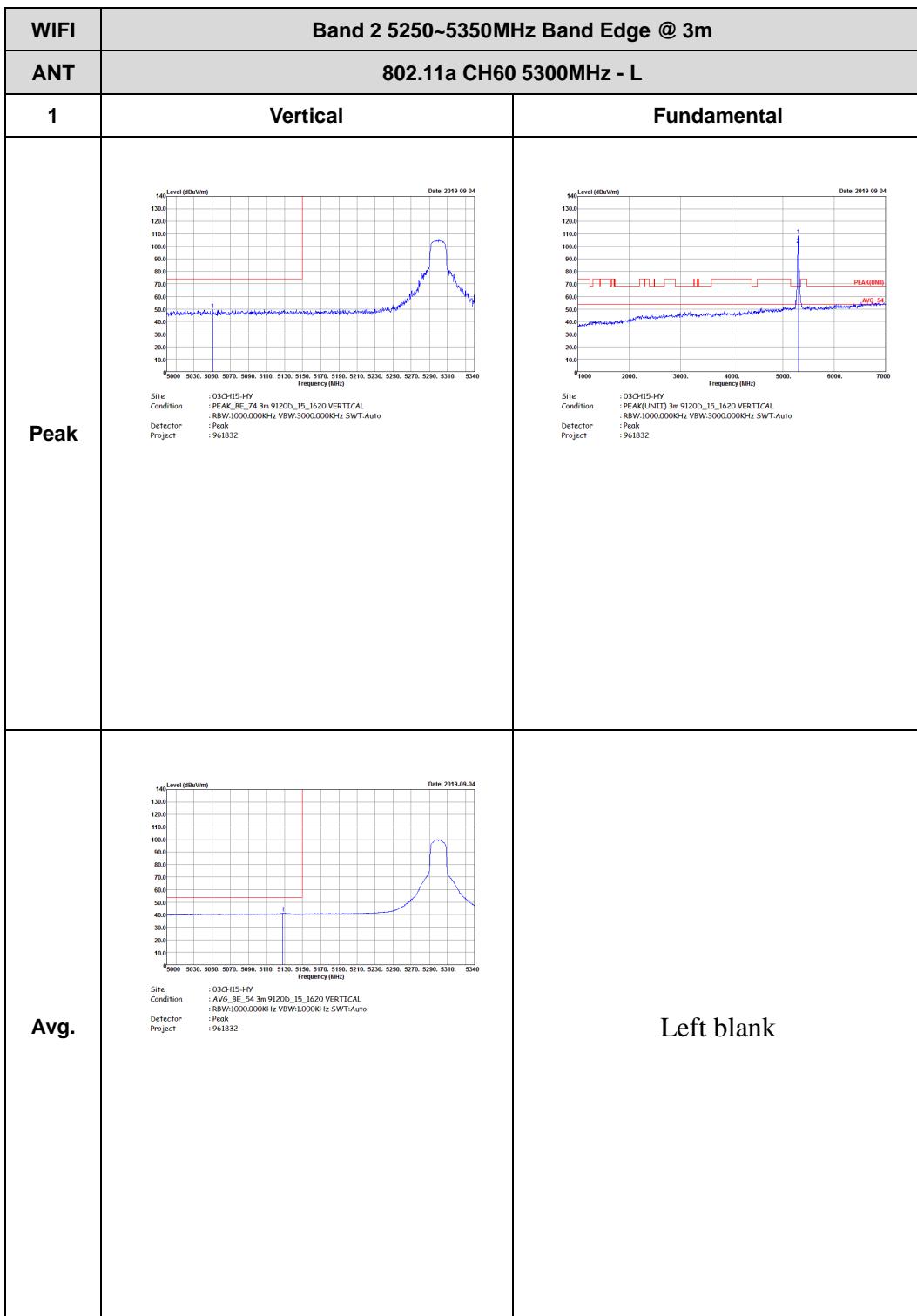


<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH52 5260MHz - R</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
Peak	 Date: 2019-09-04 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank
Avg.	 Date: 2019-09-04 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank





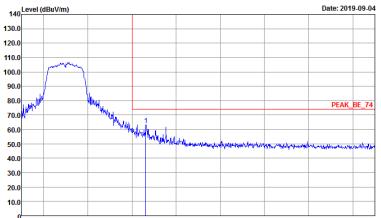
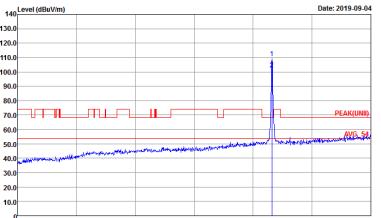
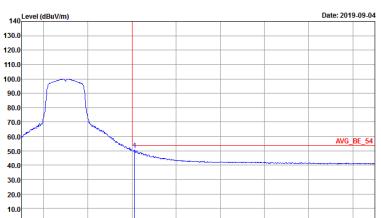
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. A sharp peak is labeled PEAK_BE_74 at approximately 5290 MHz. The plot includes measurement parameters: Site: 03CH15-HY, Condition: PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL, Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto, Project: 961832.</p>	Left blank
Avg.	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. A broad average level is labeled AVG_BE_54. The plot includes measurement parameters: Site: 03CH15-HY, Condition: AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL, Detector: RBW:1000.000KHz VBW:1.0000KHz SWT:Auto, Project: 961832.</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a sharp peak labeled 'PEAK_BE_74' at approximately 5290 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5460 MHz. The plot is dated 2019-09-04.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a broad average level labeled 'AVG_BE_54'. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5460 MHz. The plot is dated 2019-09-04.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



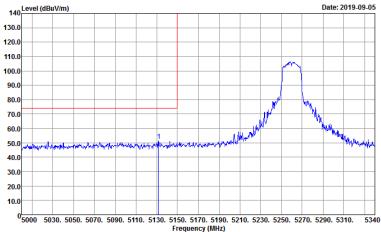
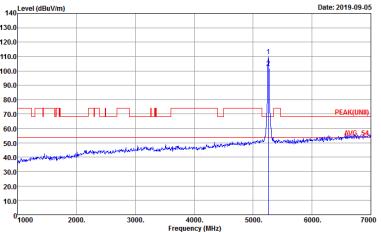
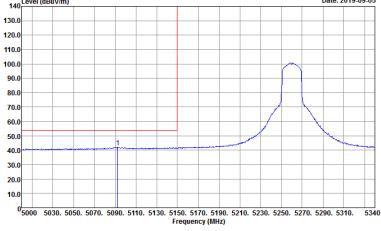
<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH64 5320MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(FUND) 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	<p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000Hz SWT:Auto Project : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(I15):INT 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000Hz SWT:Auto Project : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000kHz VBW:1.000Hz SWT:Auto Project : Peak Project : 961832</p>	Left blank

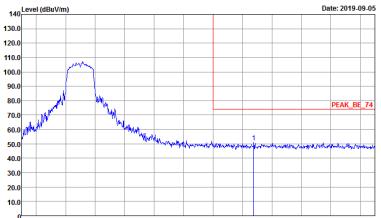
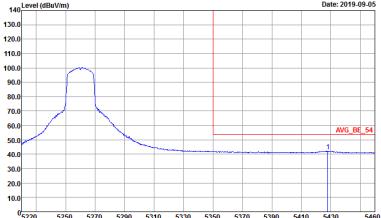


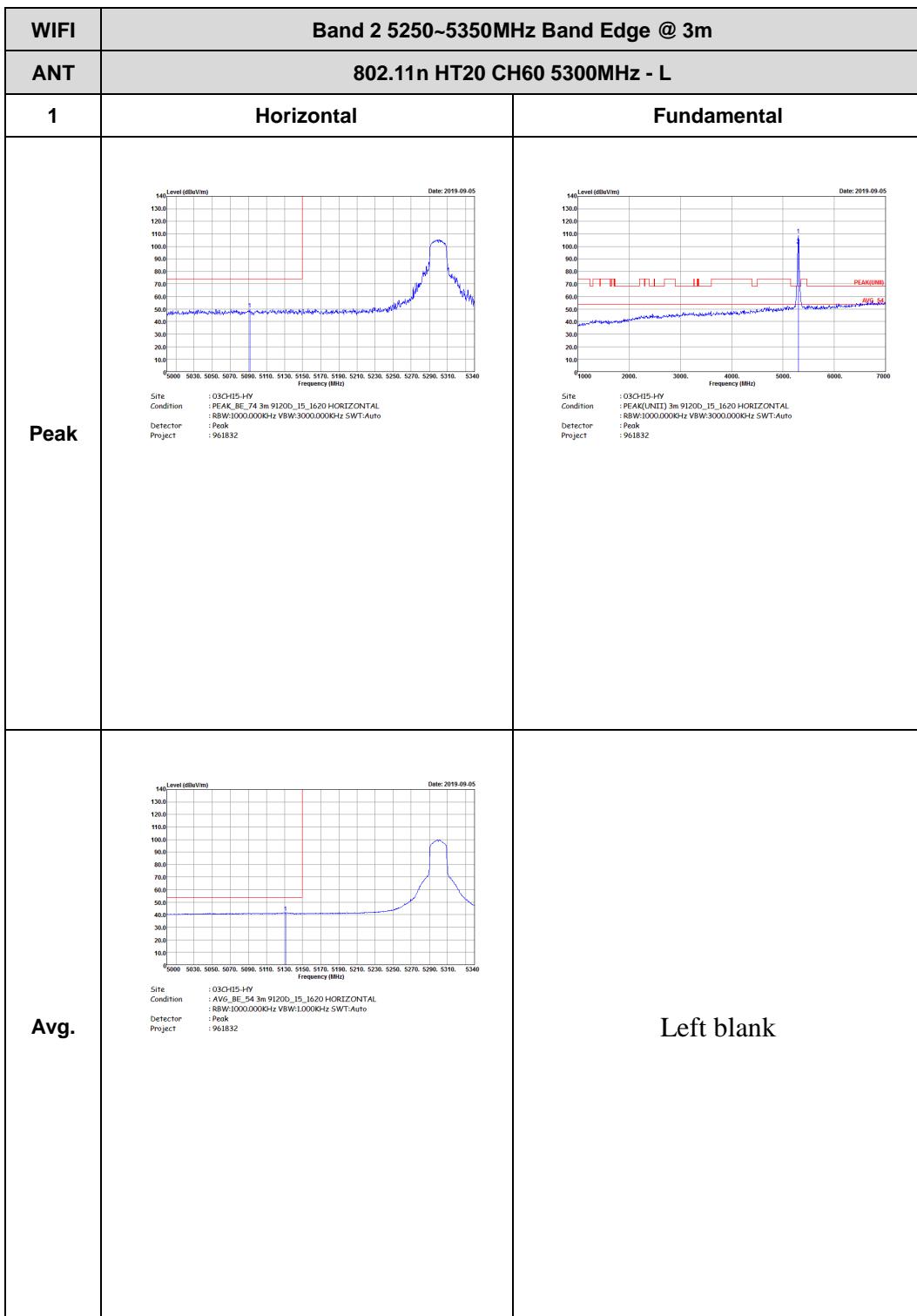
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_I5_1620 VERTICAL : BW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank

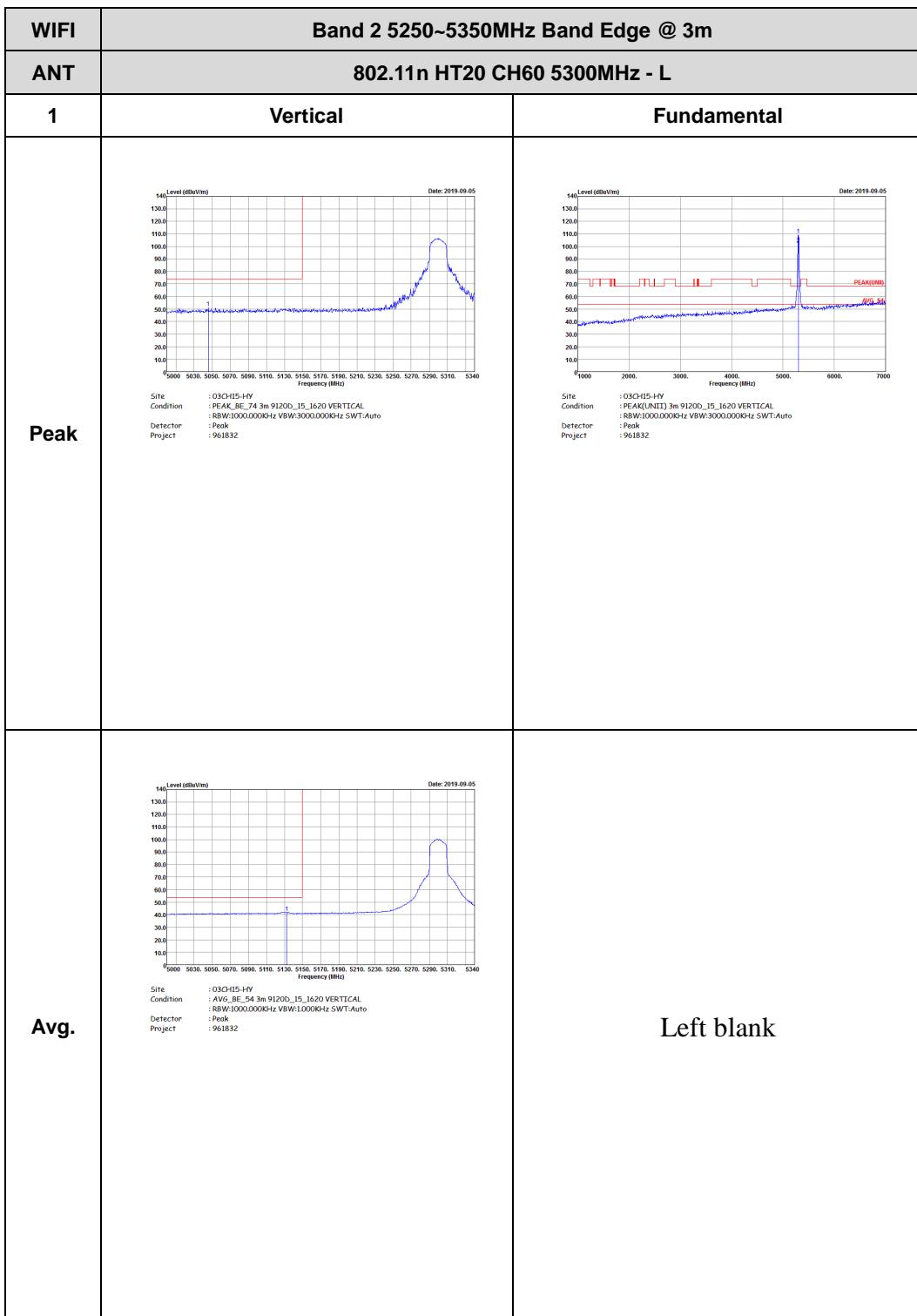


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 961832</p>	Left blank

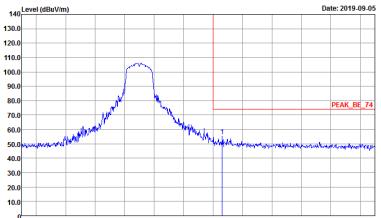
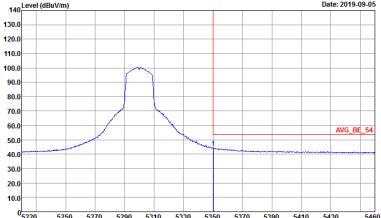




<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH60 5300MHz - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b>	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a sharp peak around 5290 MHz reaching approximately 105 dBuV/m. A red vertical line marks the peak frequency, and a red horizontal bar indicates the bandwidth. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
<b>Avg.</b>	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a peak around 5290 MHz reaching approximately 95 dBuV/m. A red vertical line marks the peak frequency, and a red horizontal bar indicates the bandwidth. The plot is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. A blue curve shows a sharp peak around 5290 MHz. A red vertical line marks the peak at 5290.74 MHz, labeled "PEAK_BE_74". The graph is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. A blue curve shows a peak around 5290 MHz. A red horizontal bar indicates the average level from 5290 to 5350 MHz, labeled "AVG_BE_54". The graph is dated 2019-09-05.</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



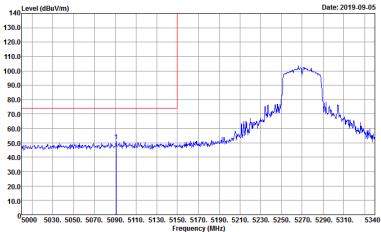
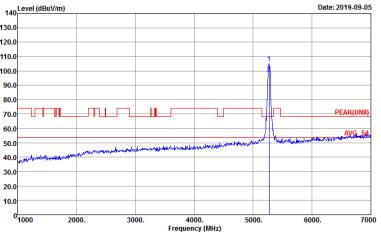
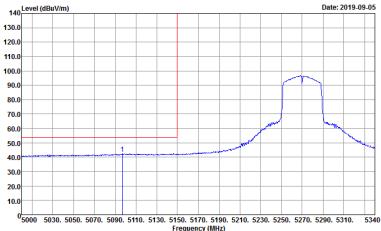
<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH64 5320MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5	 Site : 03CH15-HY Condition : PEAK(FUND) 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.0000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5	Left blank



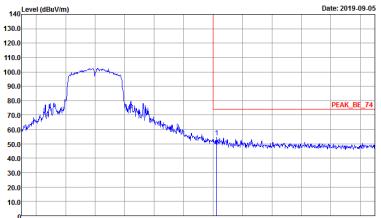
<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH64 5320MHz</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5	 Site : 03CH15-HY Condition : PEAK(BE) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5	Left blank

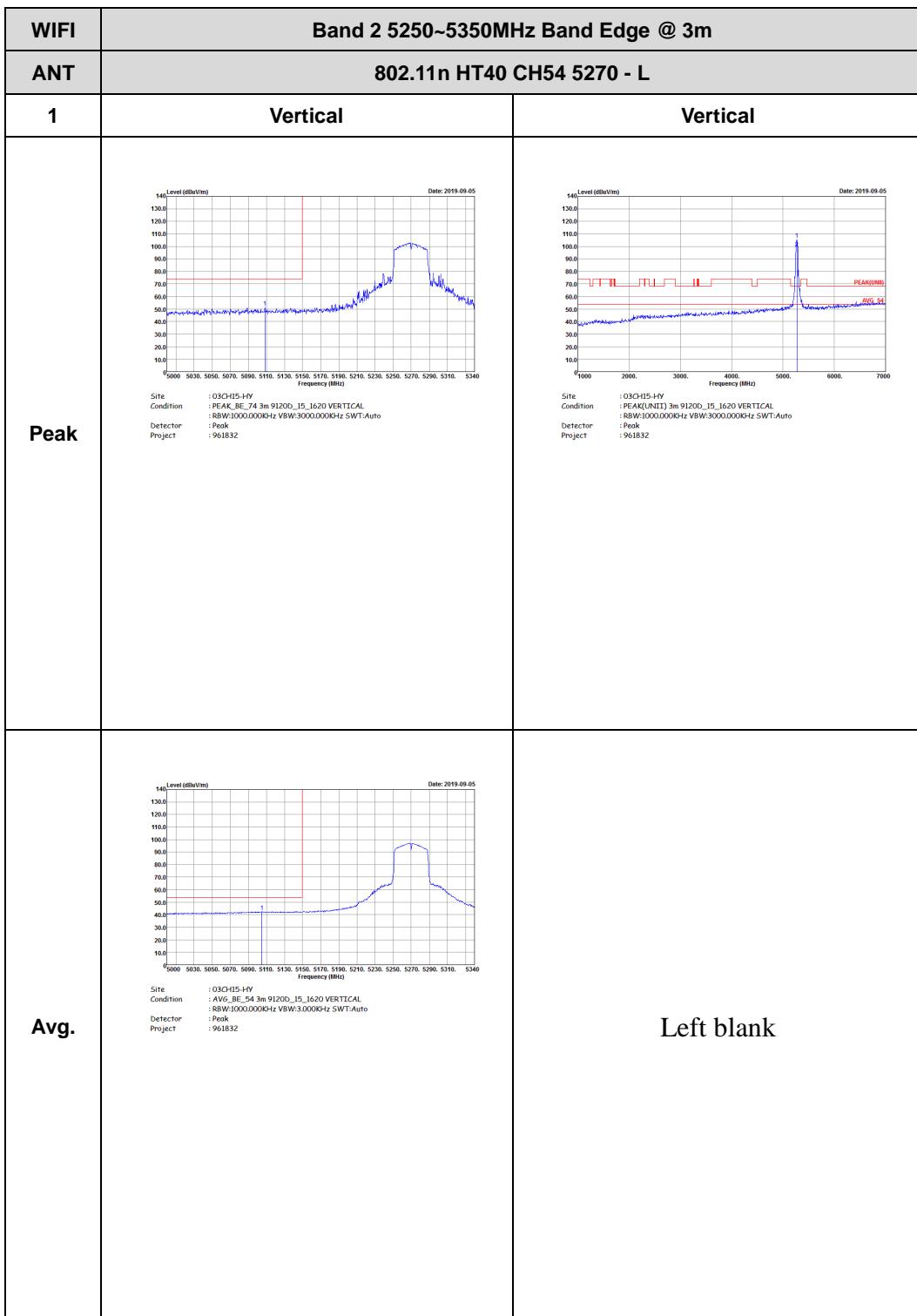


**Band 2 5250~5350MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

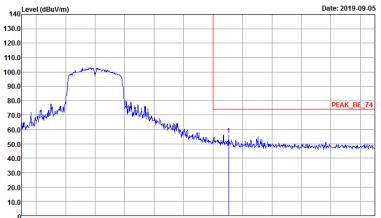
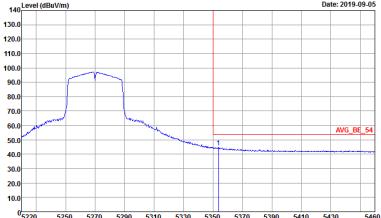
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(IIS-INT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

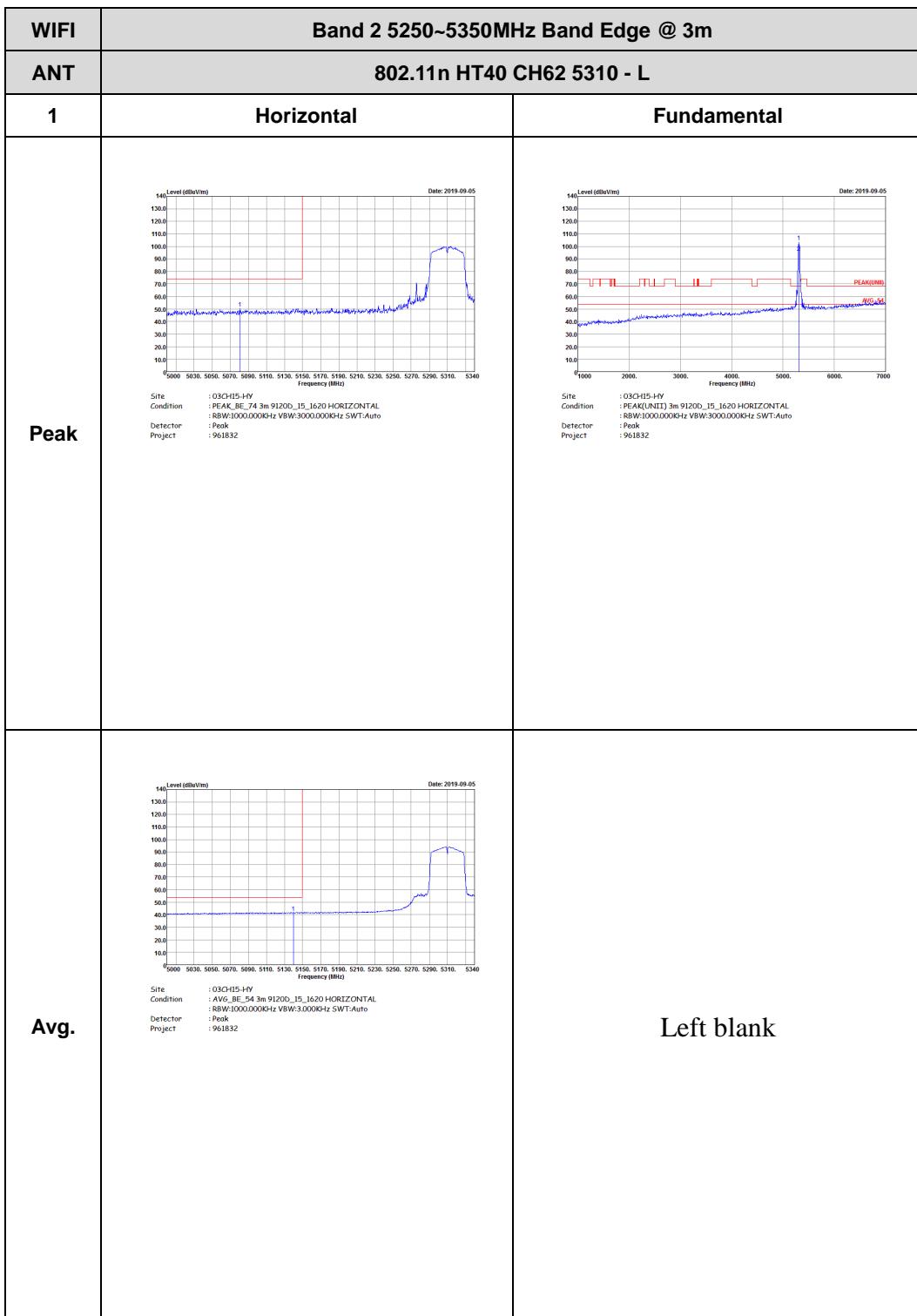


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a sharp peak labeled 'PEAK_BE_74' at approximately 5270 MHz.</p> <p>Date: 2019-09-05</p> <p>Site: 03CH15-HY Condition: PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The graph shows a broad average envelope labeled 'AVG_BE_54' centered around 5270 MHz.</p> <p>Date: 2019-09-05</p> <p>Site: 03CH15-HY Condition: AVG_BE_54 3m 9120D_15_1620 HORIZONTAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank



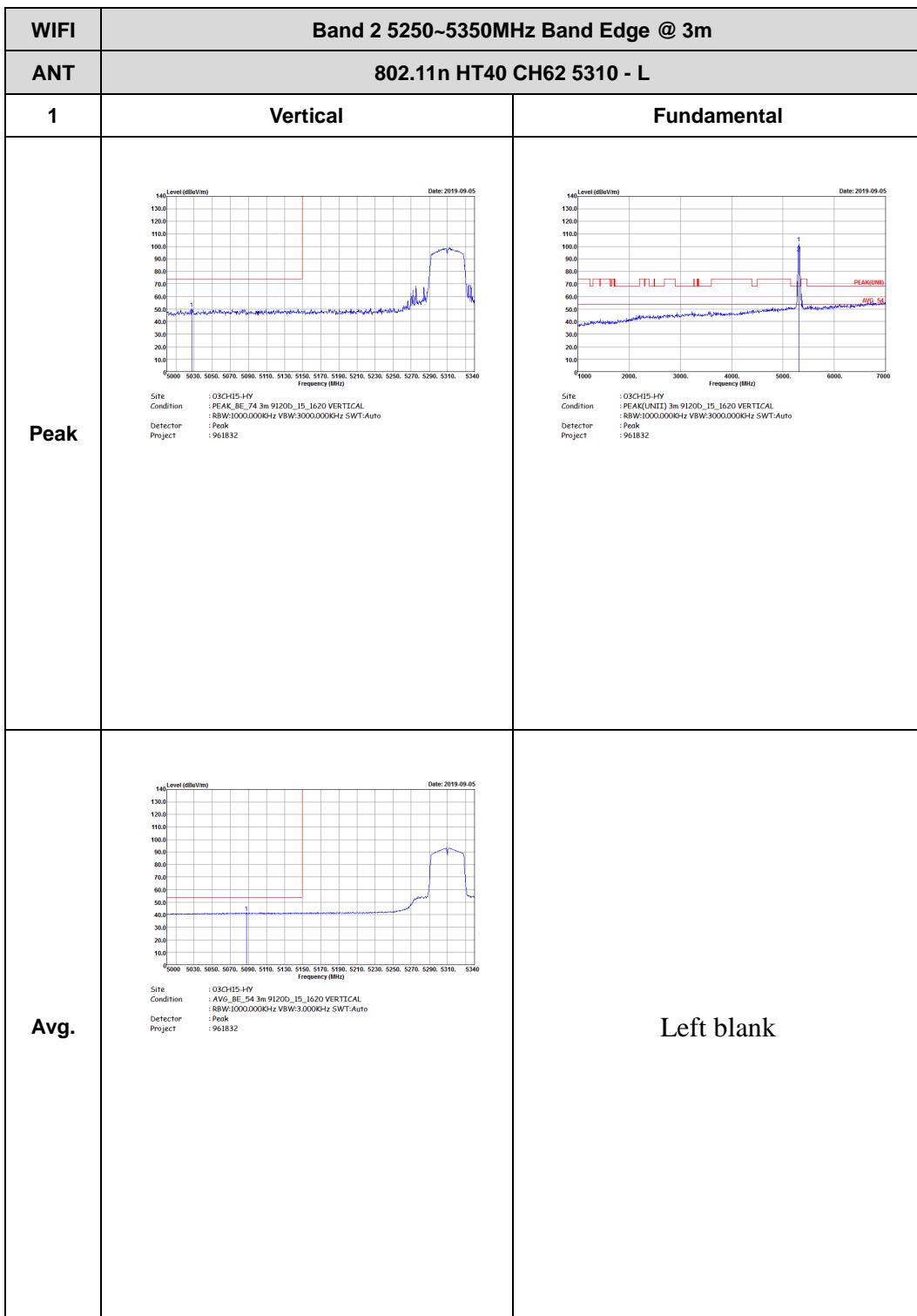


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak	 <p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5270 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m.</p> <p>Date: 2019-09-05 Site: 03CH15-HY Condition: PEAK_BE_74 3m 9120D_I5_1620 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average envelope labeled 'AVG_BE_54' centered around 5270 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m.</p> <p>Date: 2019-09-05 Site: 03CH15-HY Condition: AVG_BE_54 3m 9120D_I5_1620 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank

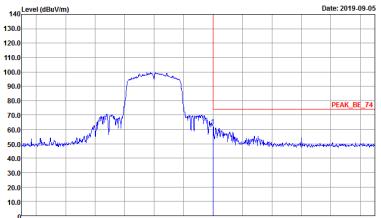
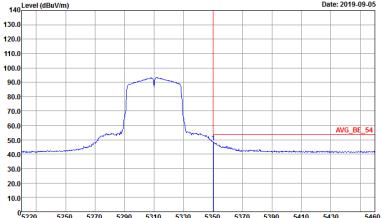




<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH62 5310 - R</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
Peak	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5310 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 5220 to 5460 MHz. Test parameters: Site: 03CH15-HY, Condition: PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL, Detector: Peak, Project: 961832.</p>	Left blank
Avg.	<p>Level (dBuV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average level labeled 'AVG_BE_54' centered around 5310 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 5220 to 5460 MHz. Test parameters: Site: 03CH15-HY, Condition: AVG_BE_54 3m 9120D_15_1620 HORIZONTAL, Detector: Peak, Project: 961832.</p>	Left blank

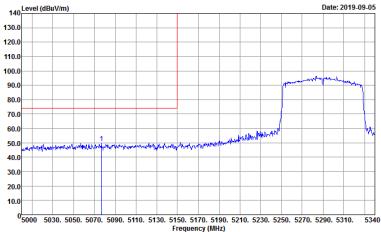
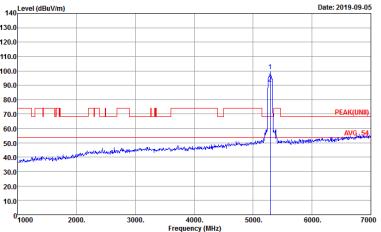
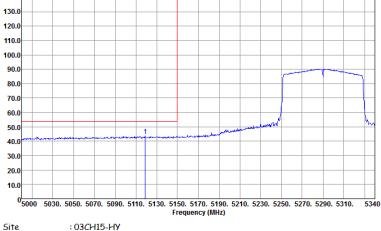




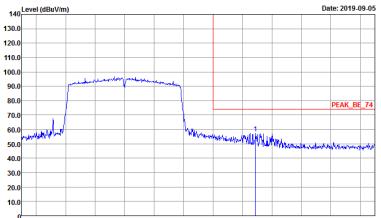
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5310 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m.</p> <p>Date: 2019-09-05</p> <p>Site: 03CH15-HY Condition: PEAK_BE_74 3m 9120D_I5_1620 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average level labeled 'AVG_BE_54' centered around 5310 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m.</p> <p>Date: 2019-09-05</p> <p>Site: 03CH15-HY Condition: AVG_BE_54 3m 9120D_I5_1620 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 961832</p>	Left blank

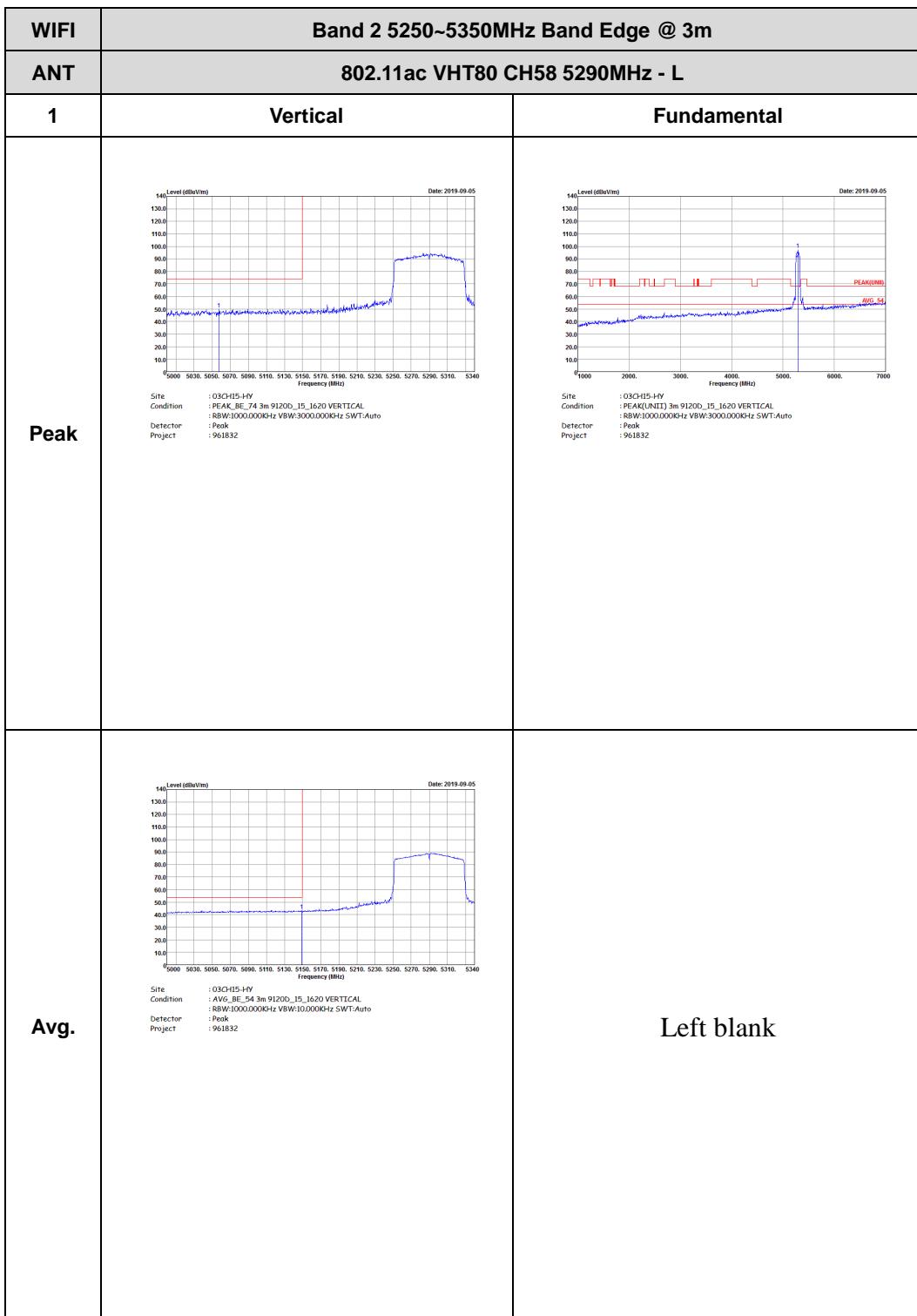


**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

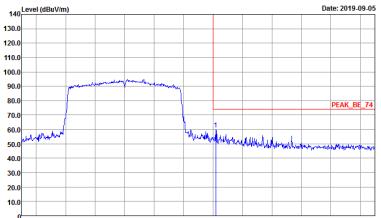
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5340. A sharp peak is labeled '1' at approximately 5290 MHz. The plot shows a flat baseline around 40 dBuV/m with a slight rise towards the end.</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Level (dBuV/m) vs Frequency (MHz) from 1000 to 7000. A sharp peak is labeled '1' at approximately 5290 MHz. The plot shows a flat baseline around 40 dBuV/m with a slight rise towards the end.</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK(I:INT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5340. A sharp peak is labeled '1' at approximately 5290 MHz. The plot shows a flat baseline around 40 dBuV/m with a slight rise towards the end.</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



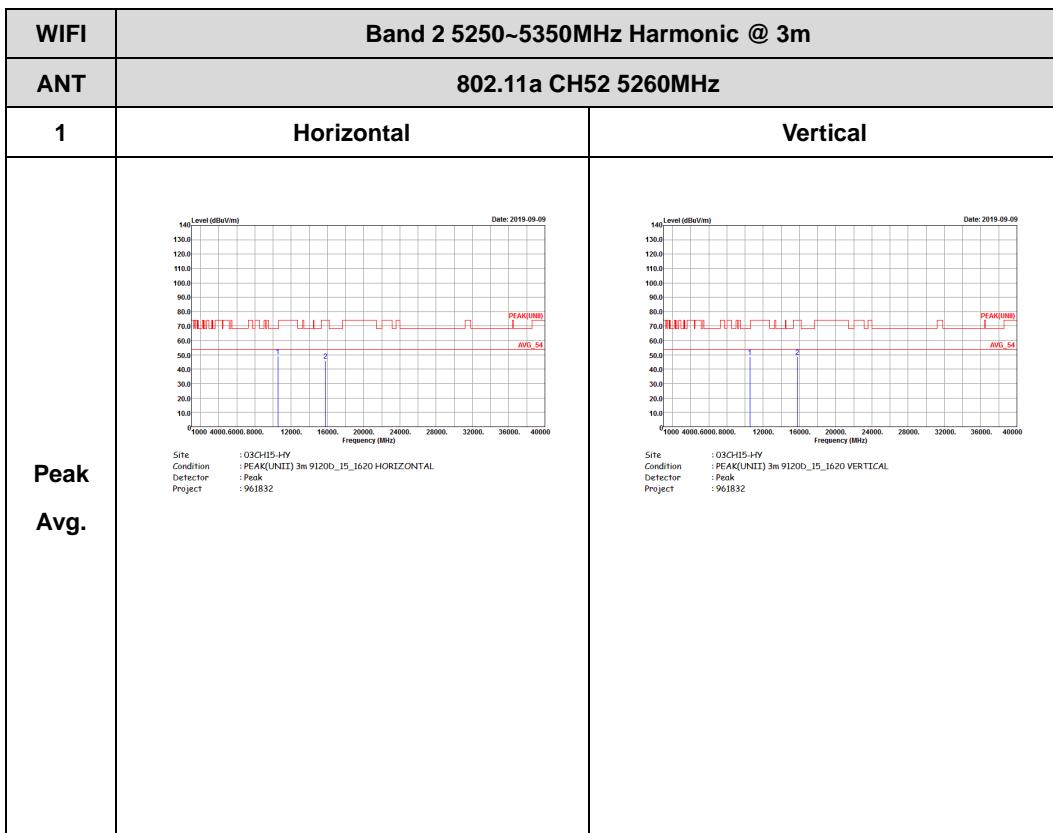


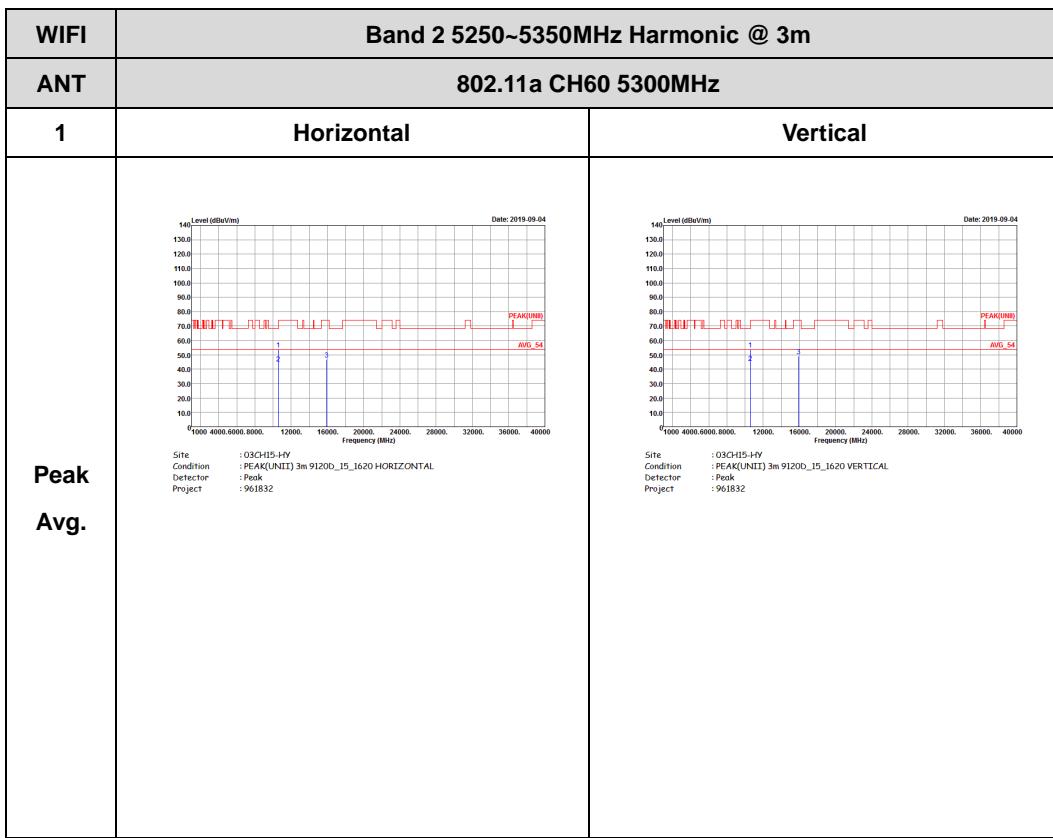
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

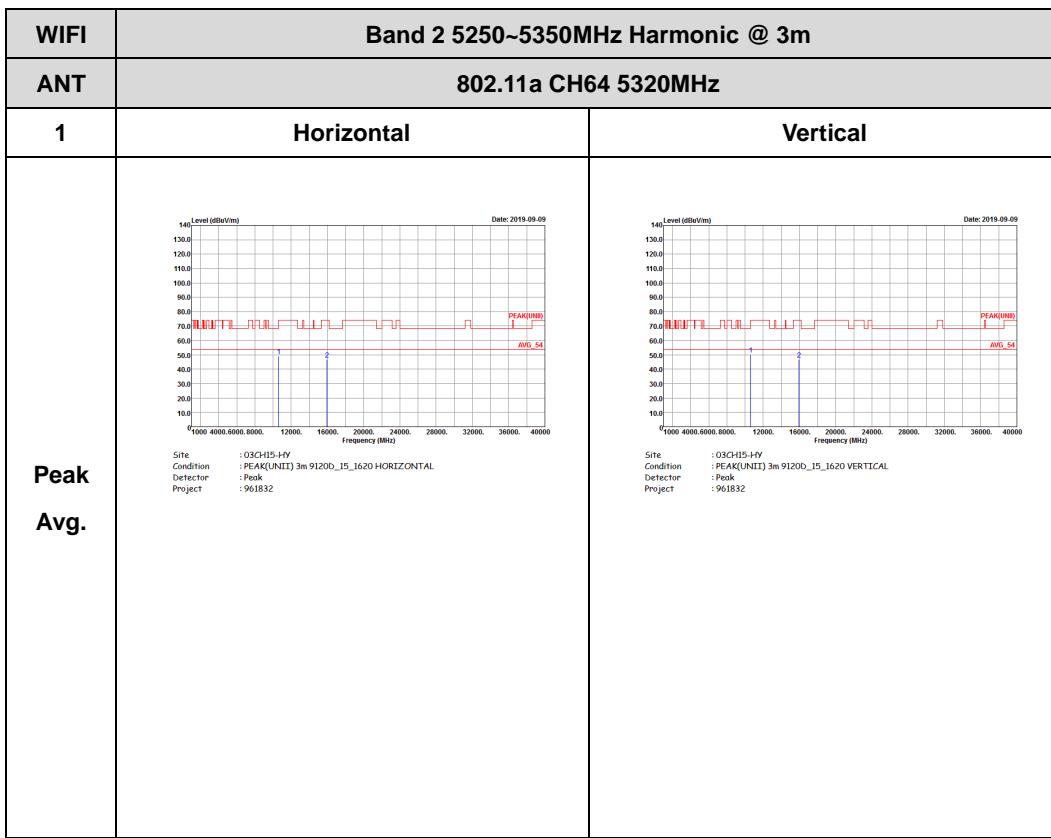


## Band 2 - 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

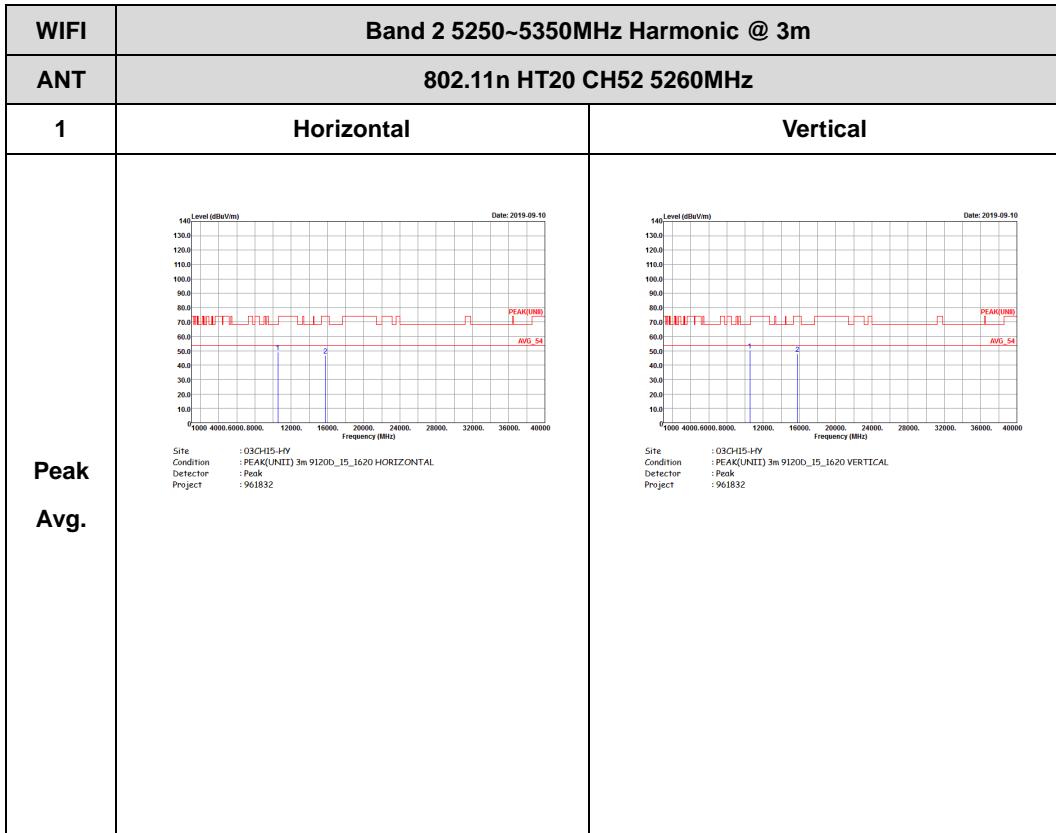


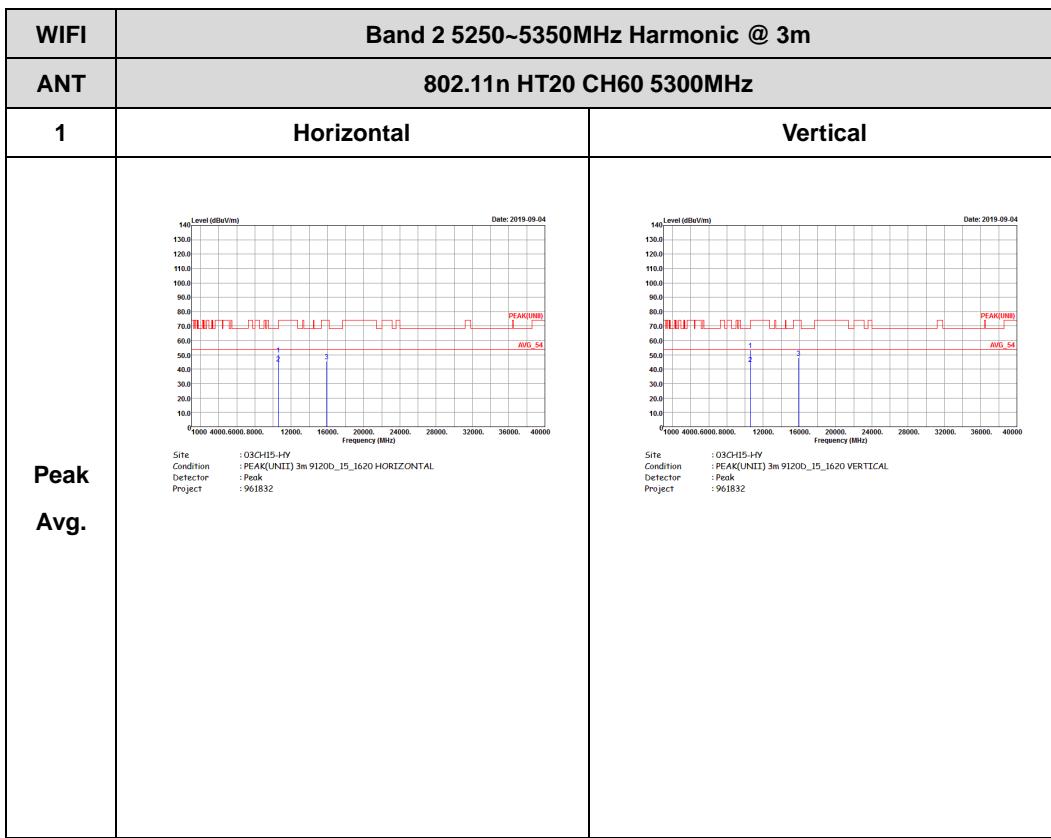


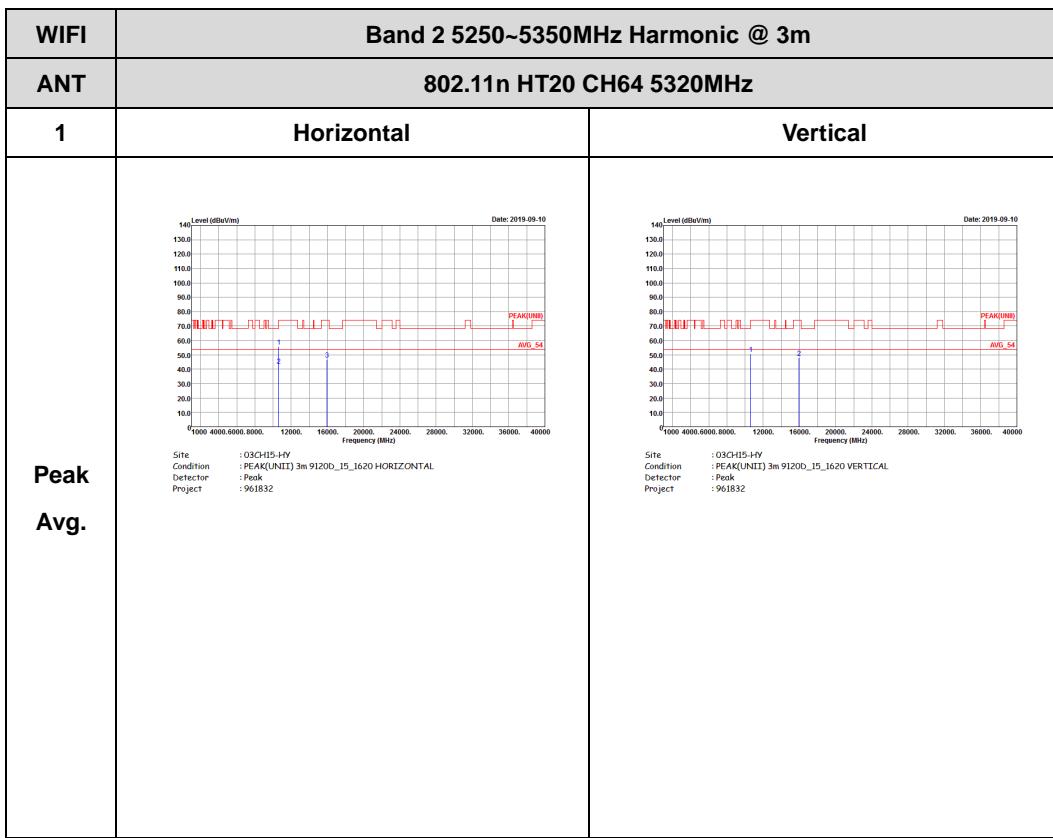




**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

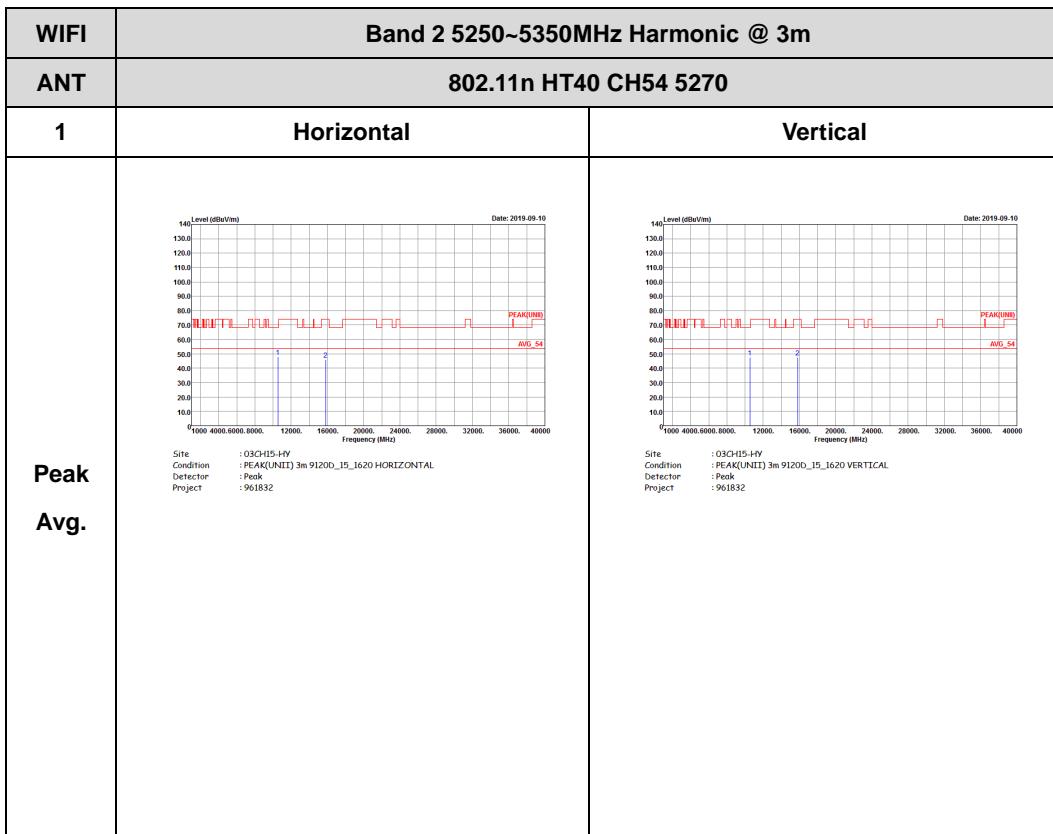


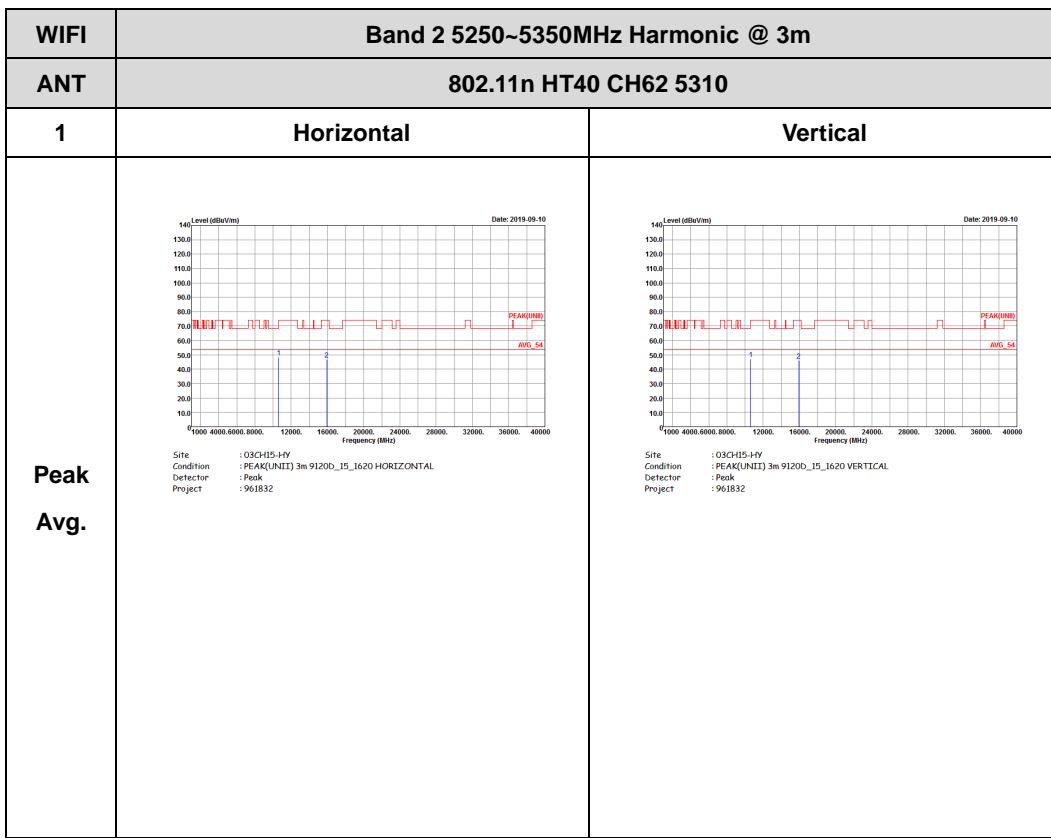






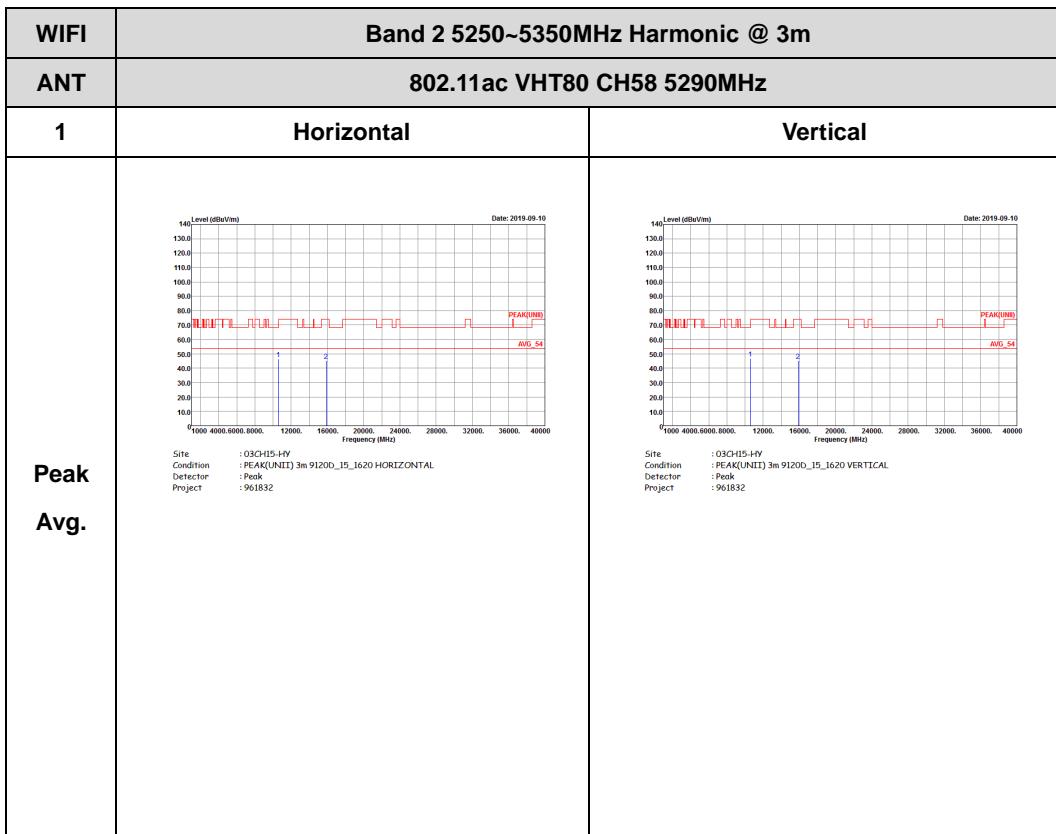
**Band 2 5250~5350MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**







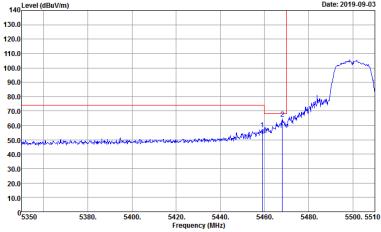
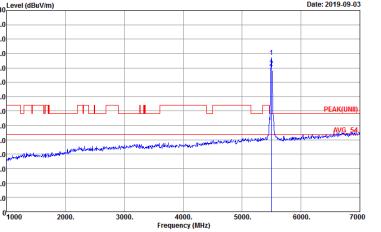
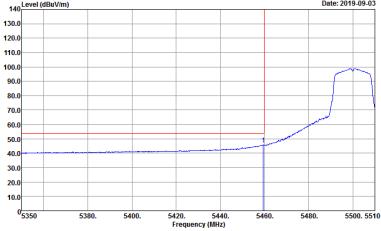
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**



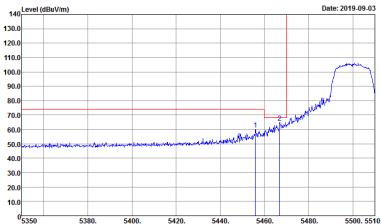
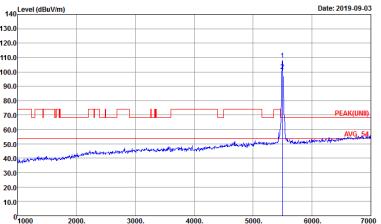
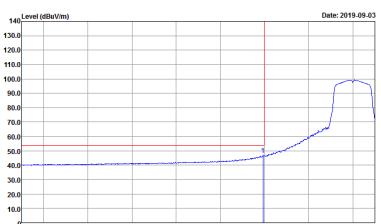


## Band 3 - 5470~5725MHz

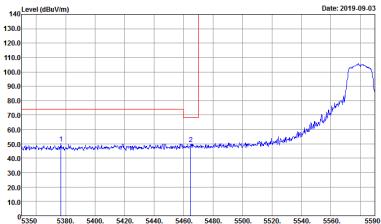
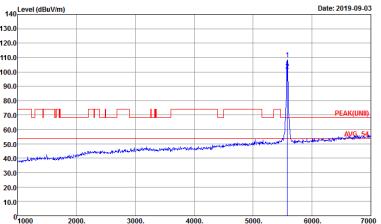
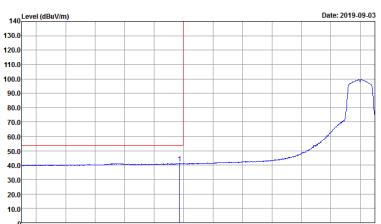
## WIFI 802.11a (Band Edge @ 3m)

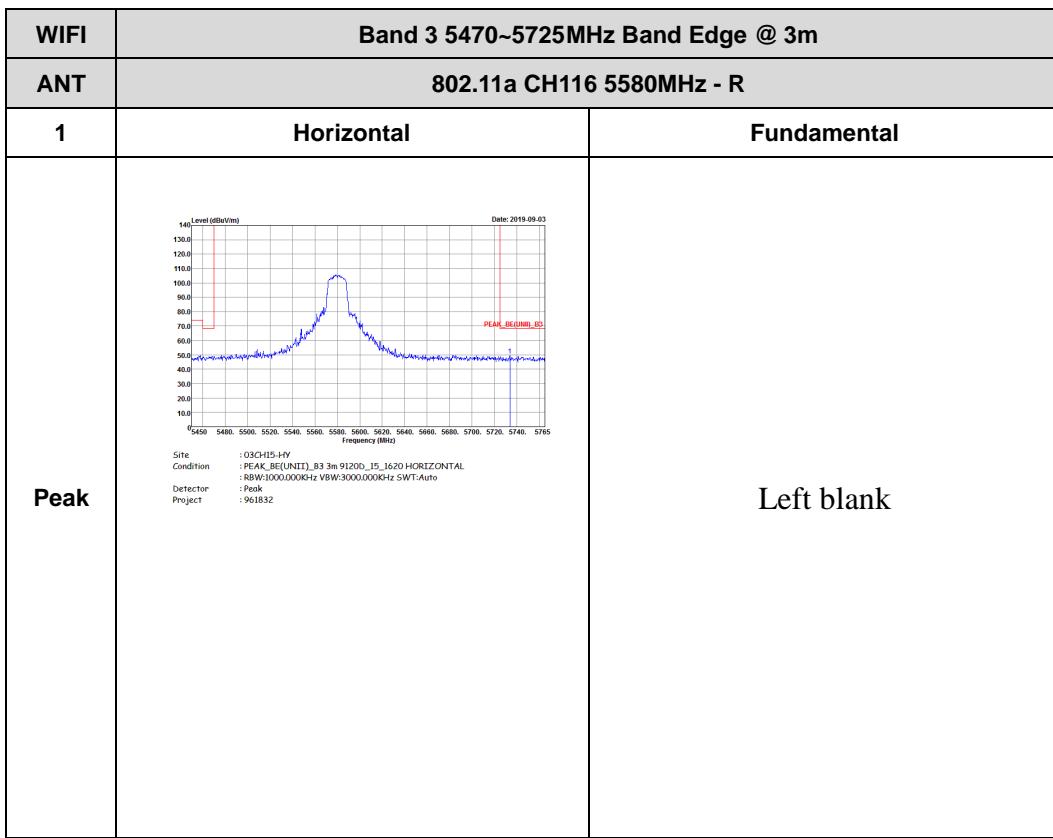
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site: 03CH15-HY Condition: PEAK_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector: RBW:1000.000kHz VBW:3000.000Hz SWT:Auto Project: 961832 Setting: 18	 Site: 03CH15-HY Condition: PEAK(I,INIT) 3m 91200_15_1620 HORIZONTAL Detector: RBW:1000.000kHz VBW:3000.000Hz SWT:Auto Project: 961832 Setting: 18
Avg.	 Site: 03CH15-HY Condition: AVG_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector: RBW:1000.000kHz VBW:1.000Hz SWT:Auto Project: 961832 Setting: 18	Left blank



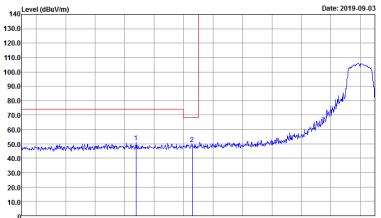
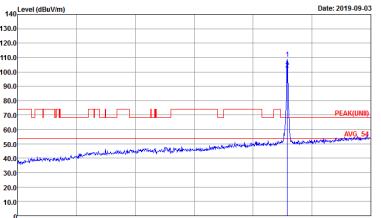
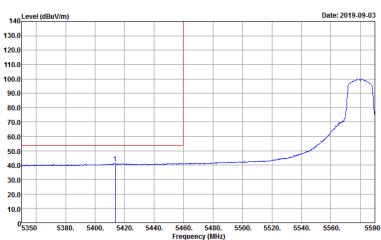
<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH100 5500MHz</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

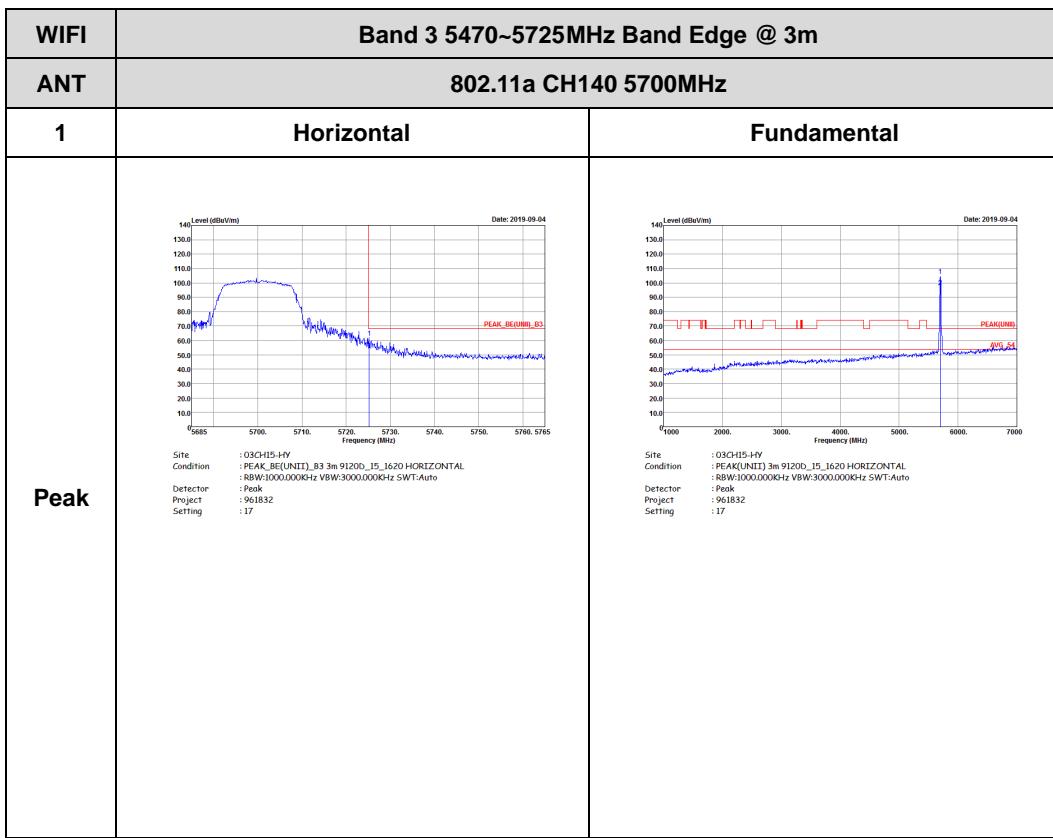


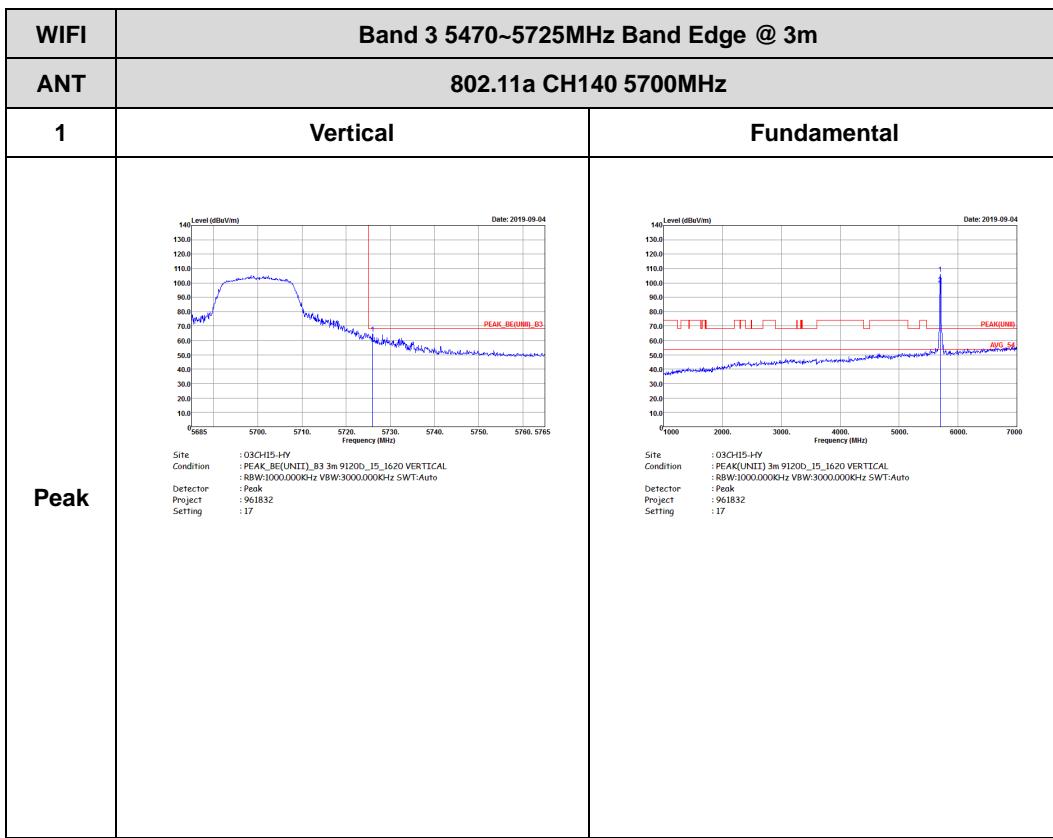


<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH116 5580MHz - L</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



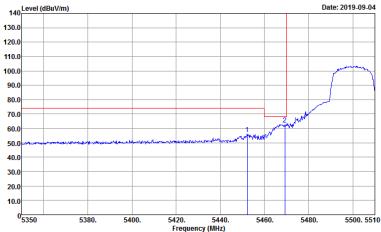
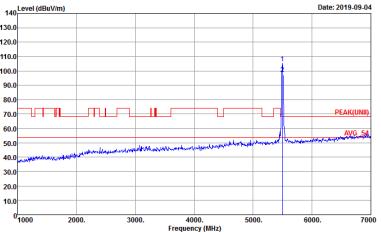
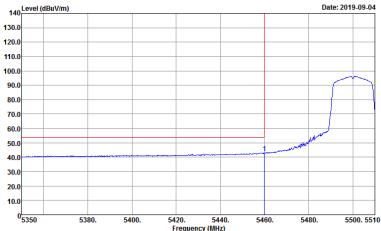
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBc/Vm)</p> <p>Frequency (MHz)</p> <p>Date: 2019-09-03</p> <p>PEAK_BE(UNIT)_B3</p> <p>Site : 03CH15-HY Condition : PEAK_BE(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW=10000.000KHz VBW=3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank



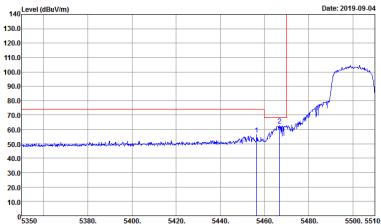
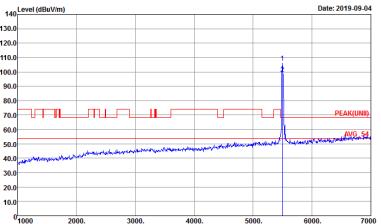
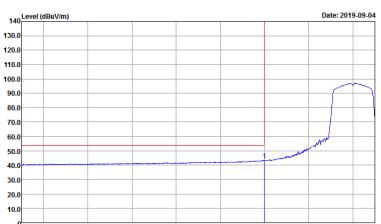




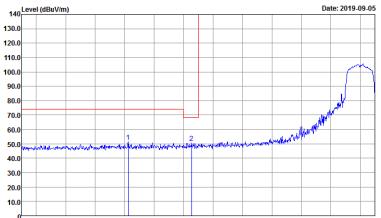
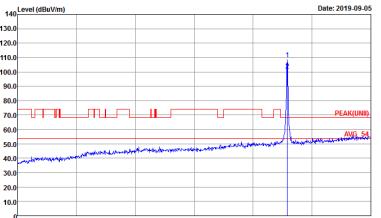
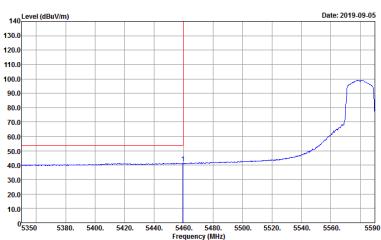
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

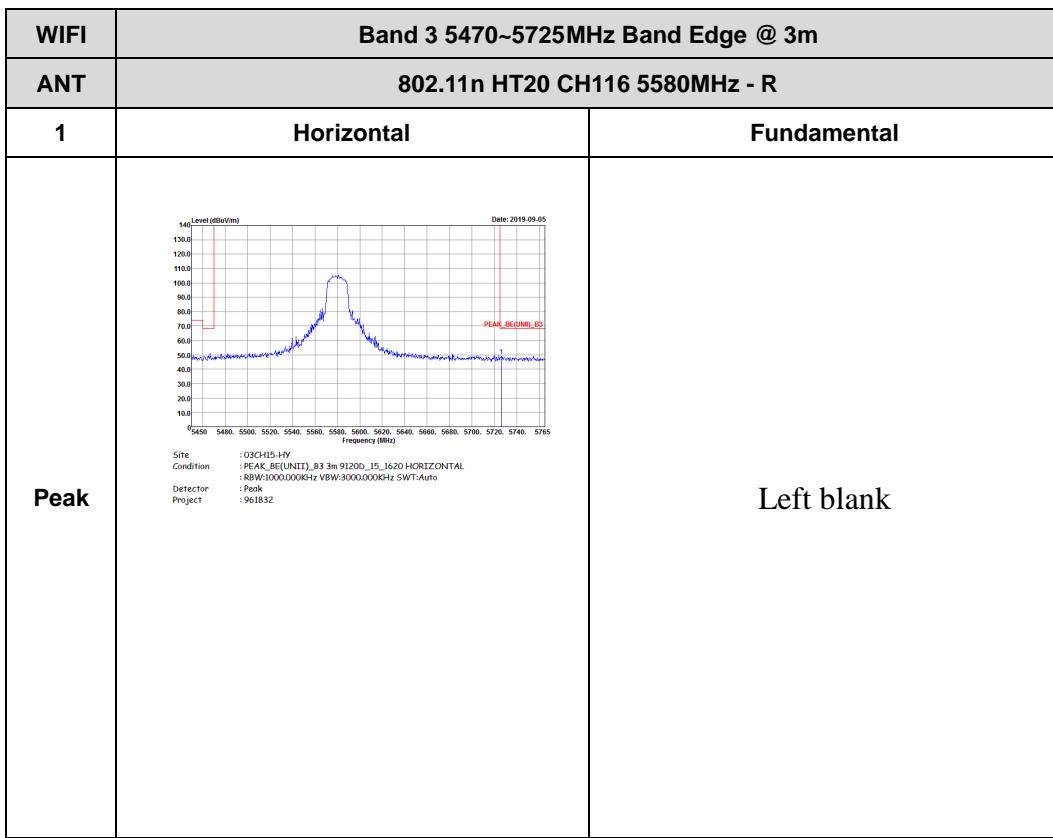
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK,BE(UNIT),B3 3m 91200,_15,_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 16	 Site : 03CH15-HY Condition : PEAK,BE(UNIT) 3m 91200,_15,_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 16
Avg.	 Site : 03CH15-HY Condition : AVG,BE(UNIT),B3 3m 91200,_15,_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 16	Left blank



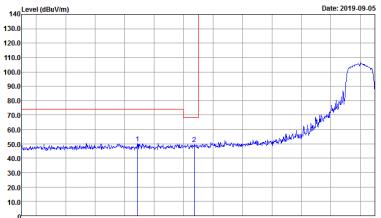
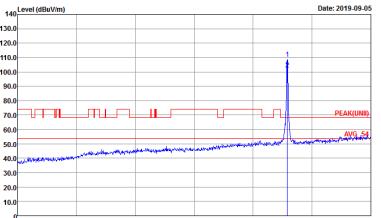
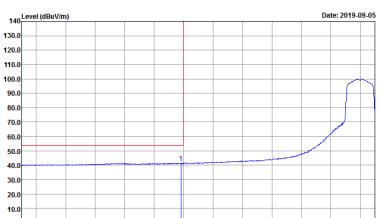
<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH100 5500MHz</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 9120D,_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 16	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 9120D,_15_1620 VERTICAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 16
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 9120D,_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 16	Left blank

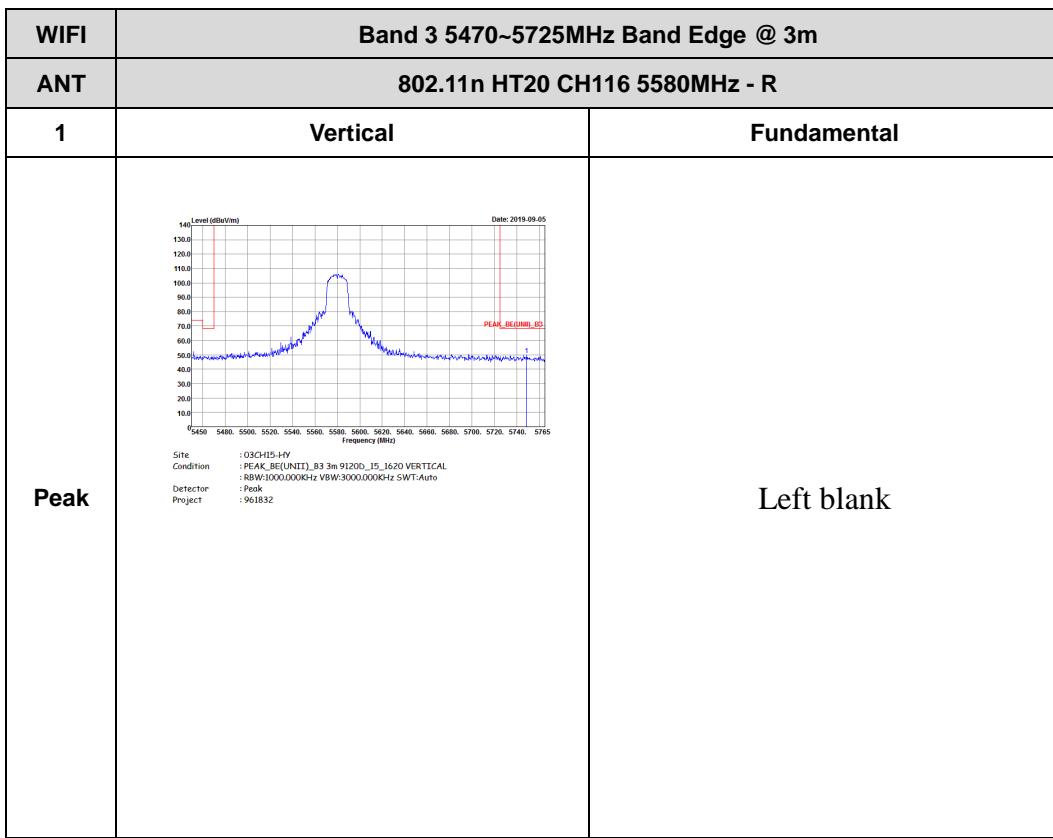


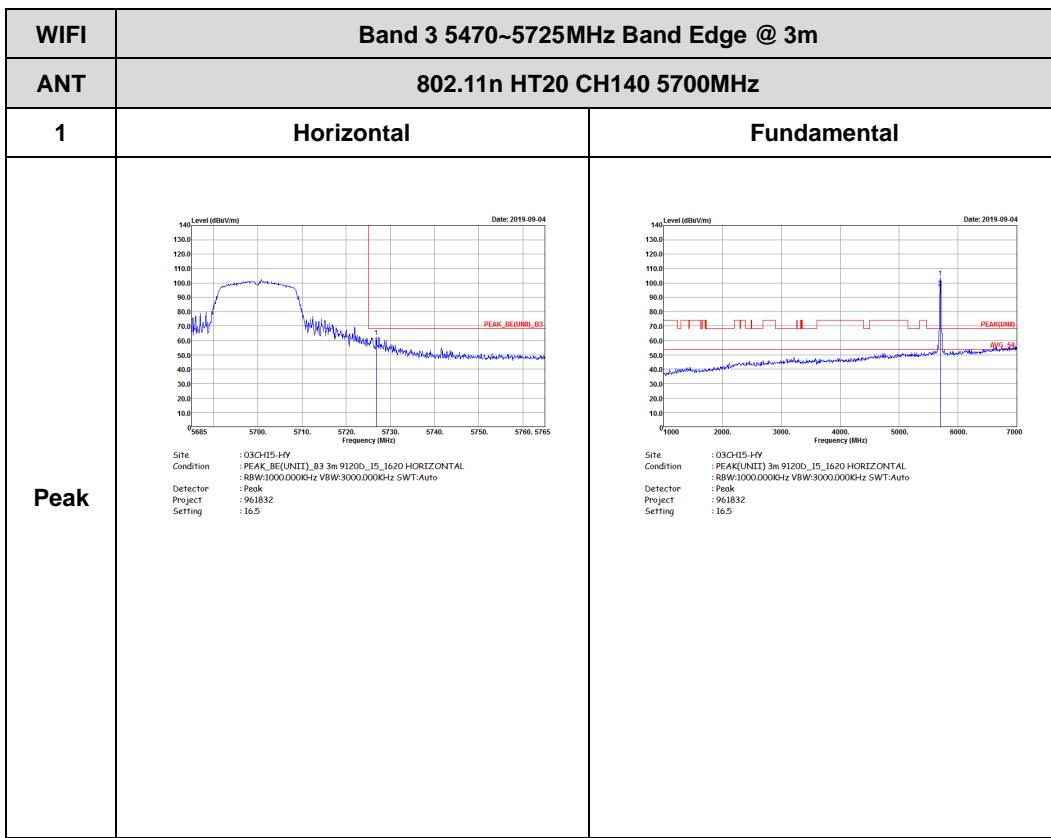
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

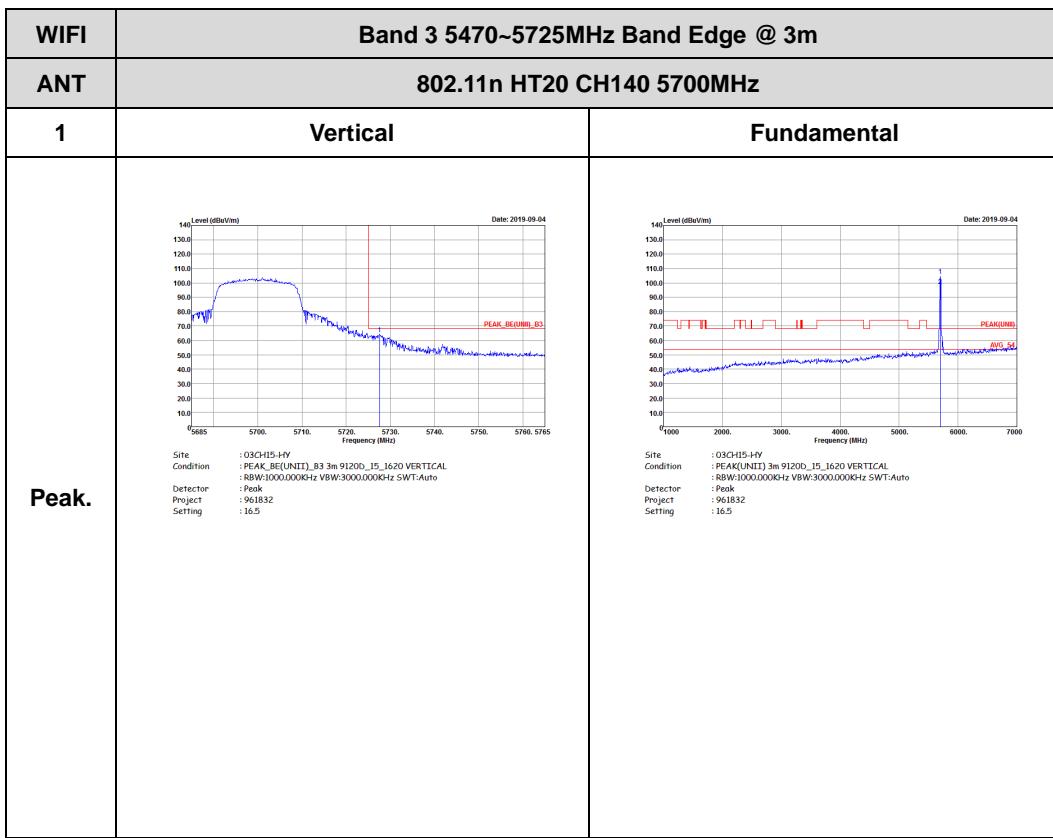




WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

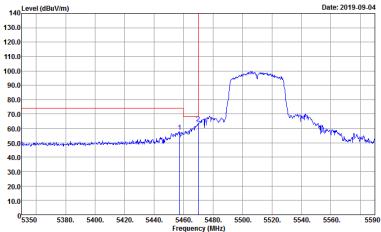
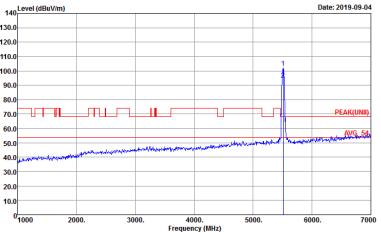
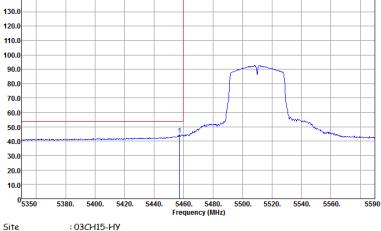


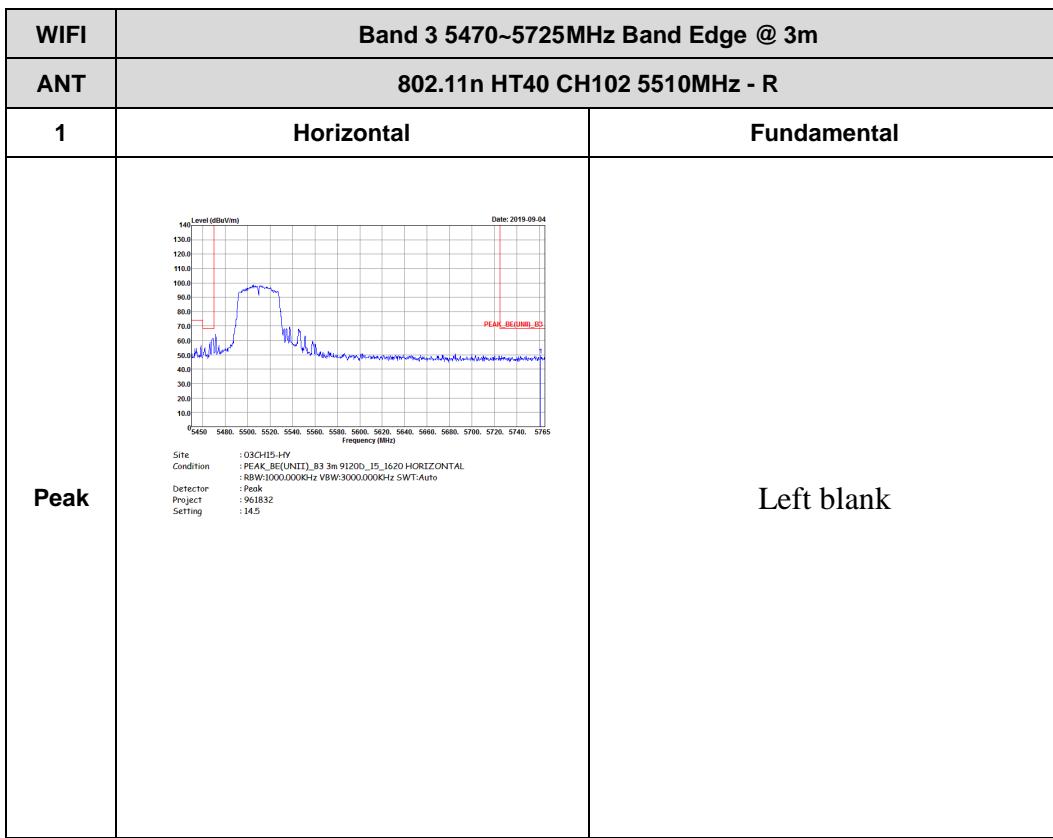


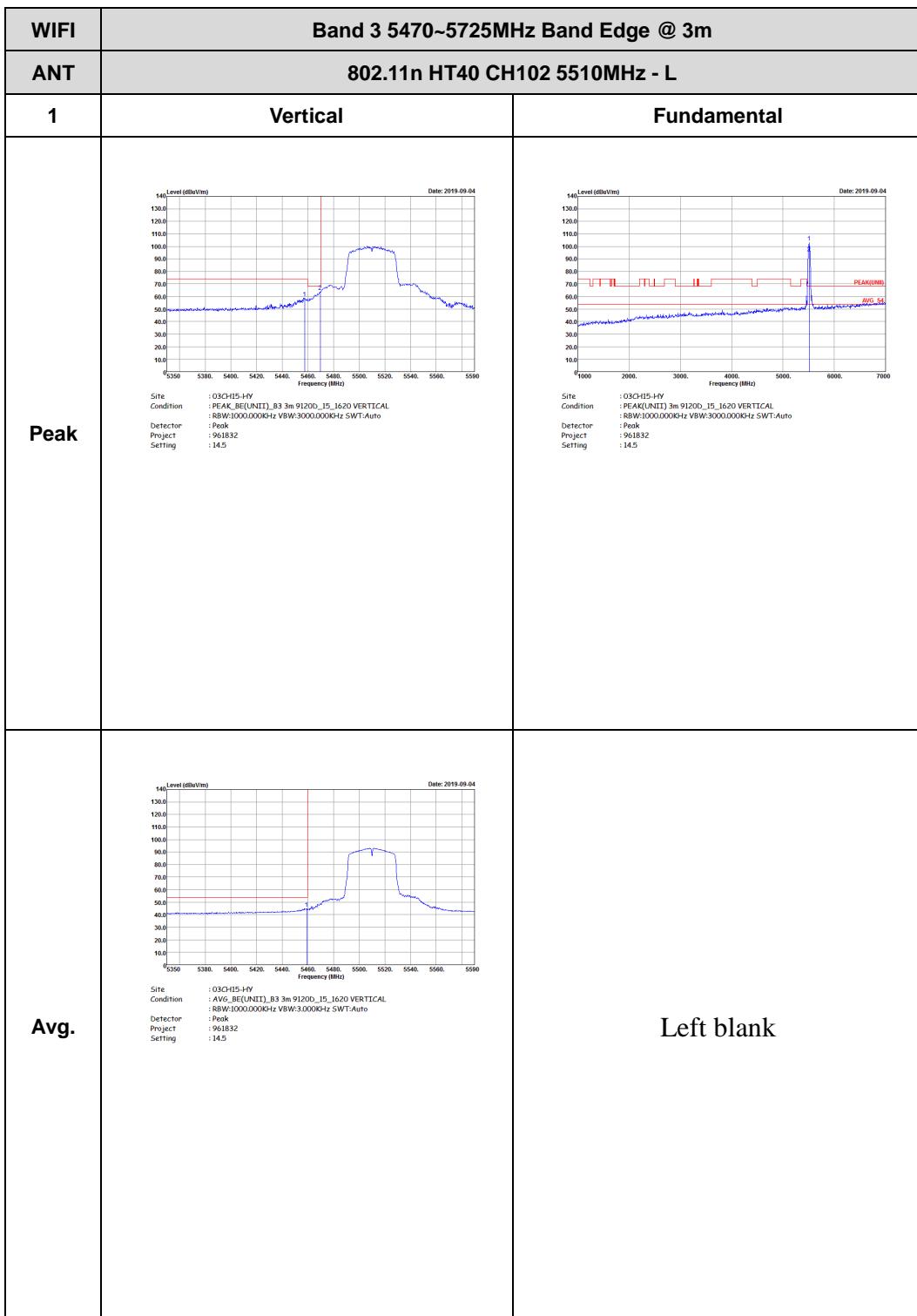


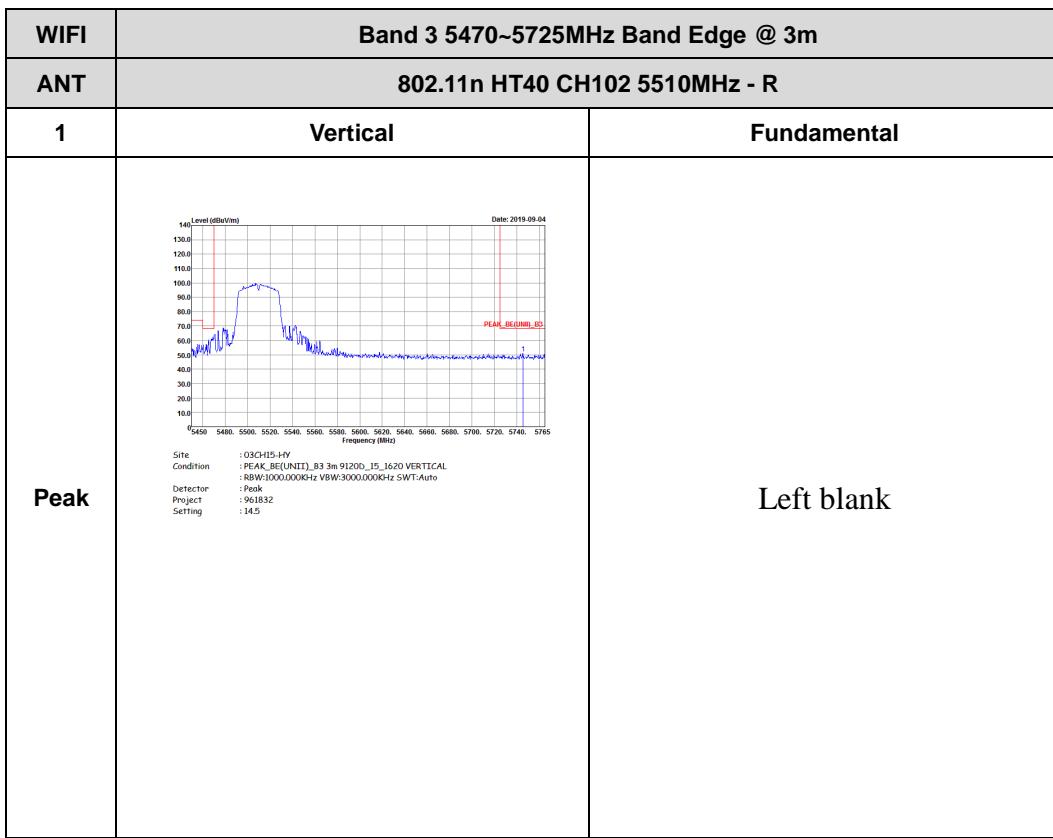


**Band 3 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

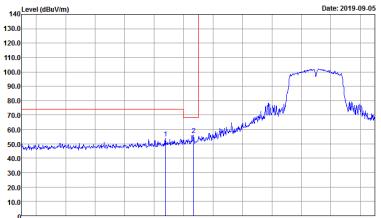
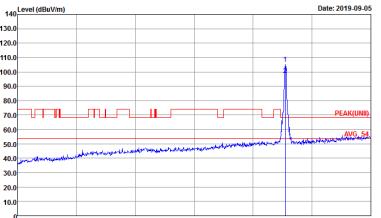
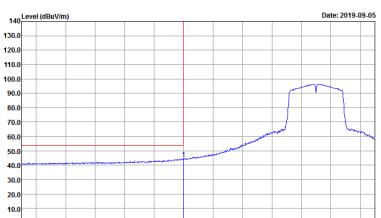
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 14.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 Setting : 14.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 961832 Setting : 14.5</p>	Left blank





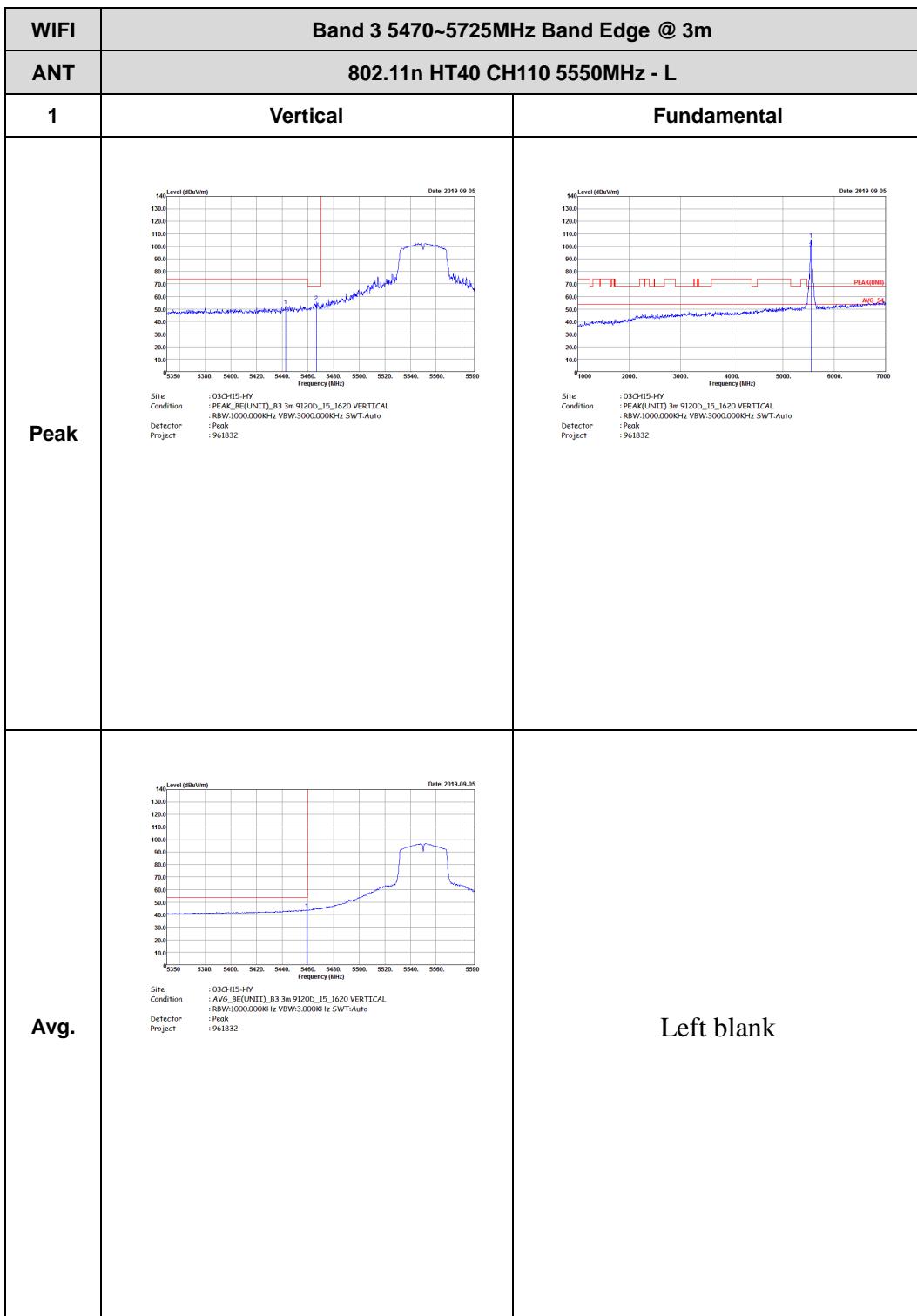


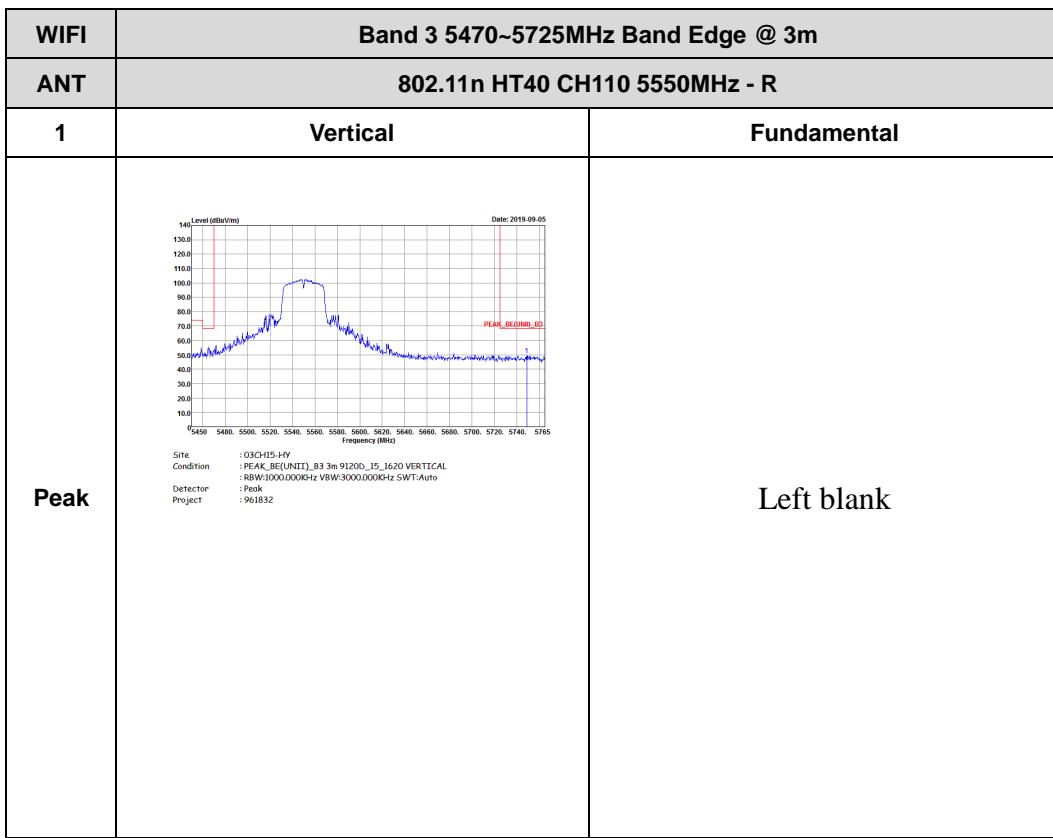


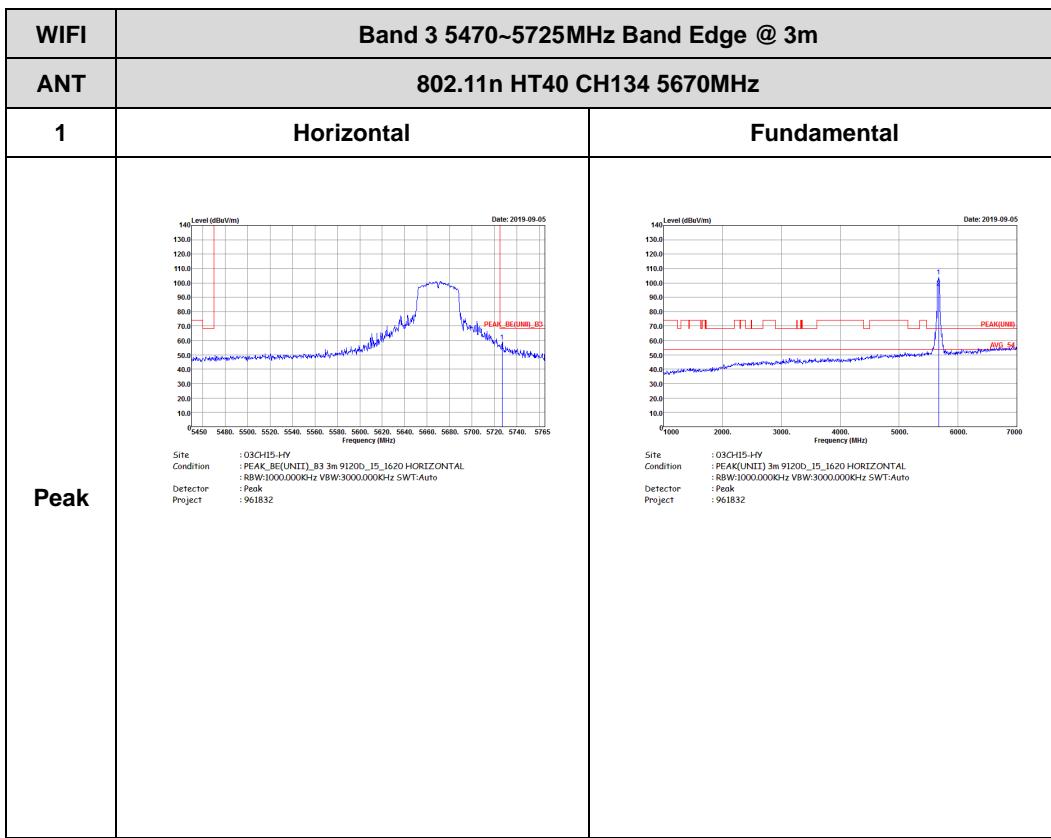
<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH110 5550MHz - L</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
<b>Avg.</b>	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3.0000Hz SWT:Auto Detector : Peak Project : 961832</p>	Left blank

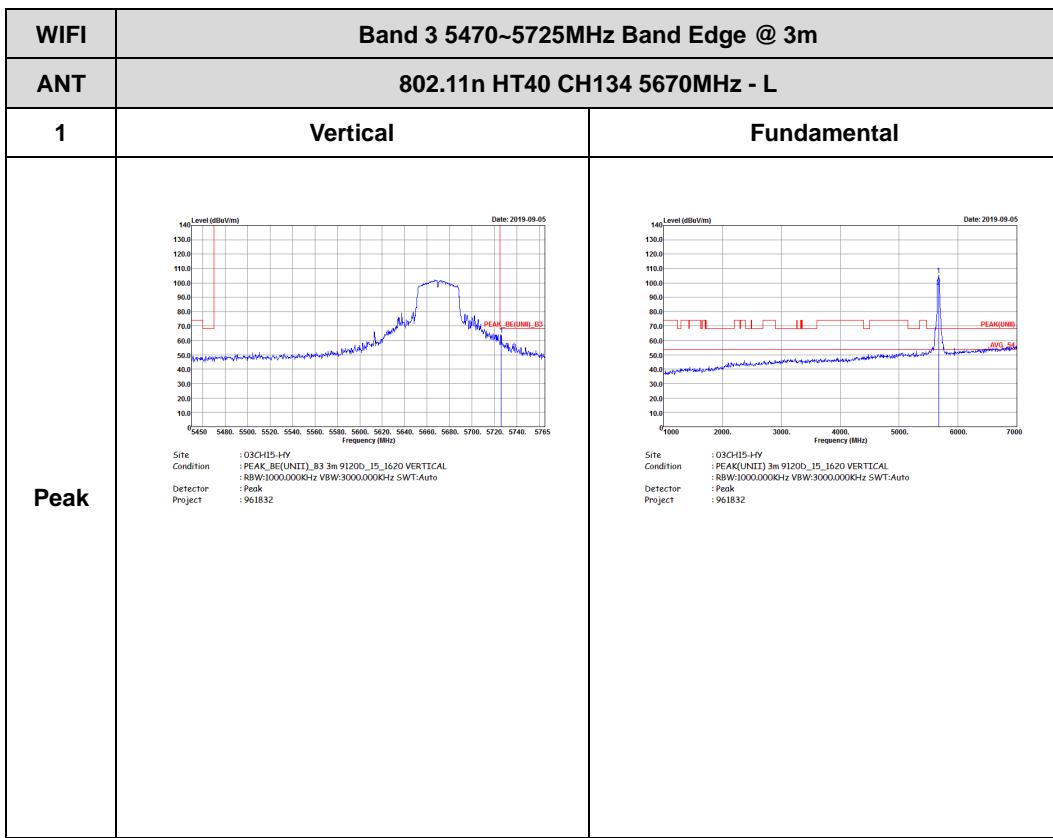


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBc/Vm)</p> <p>Frequency (MHz)</p> <p>Date: 2019-09-05</p> <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL Detector : R810K000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p>	Left blank



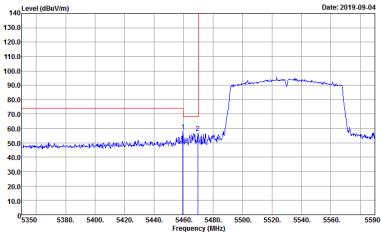
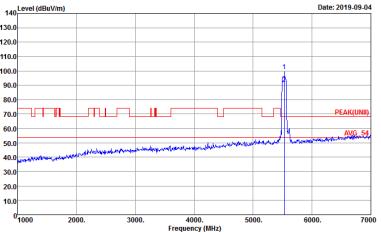
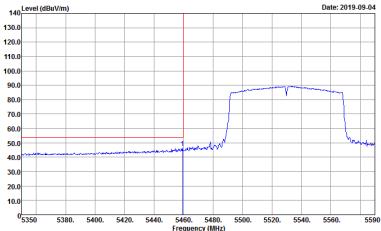


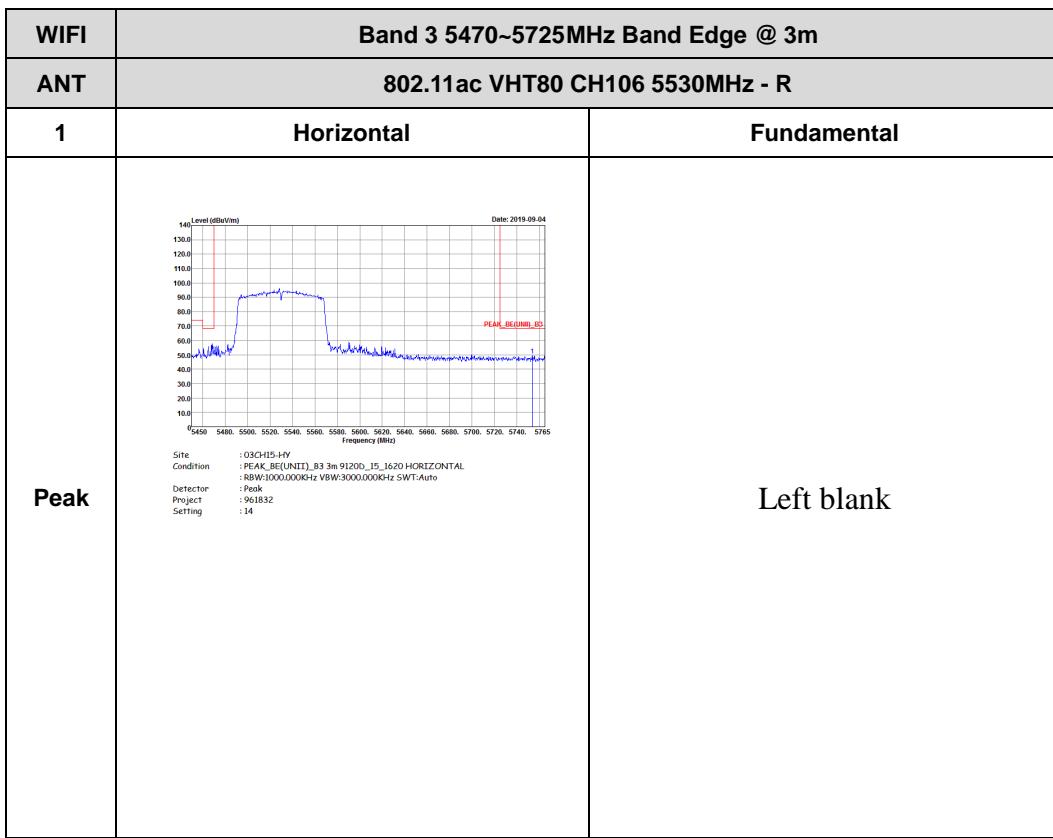




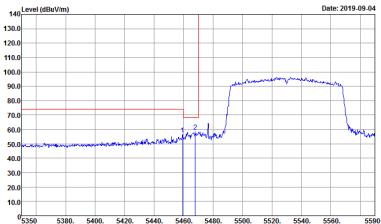
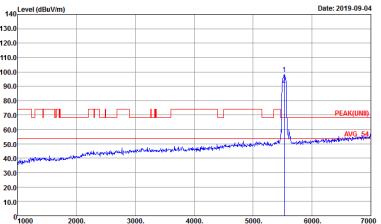


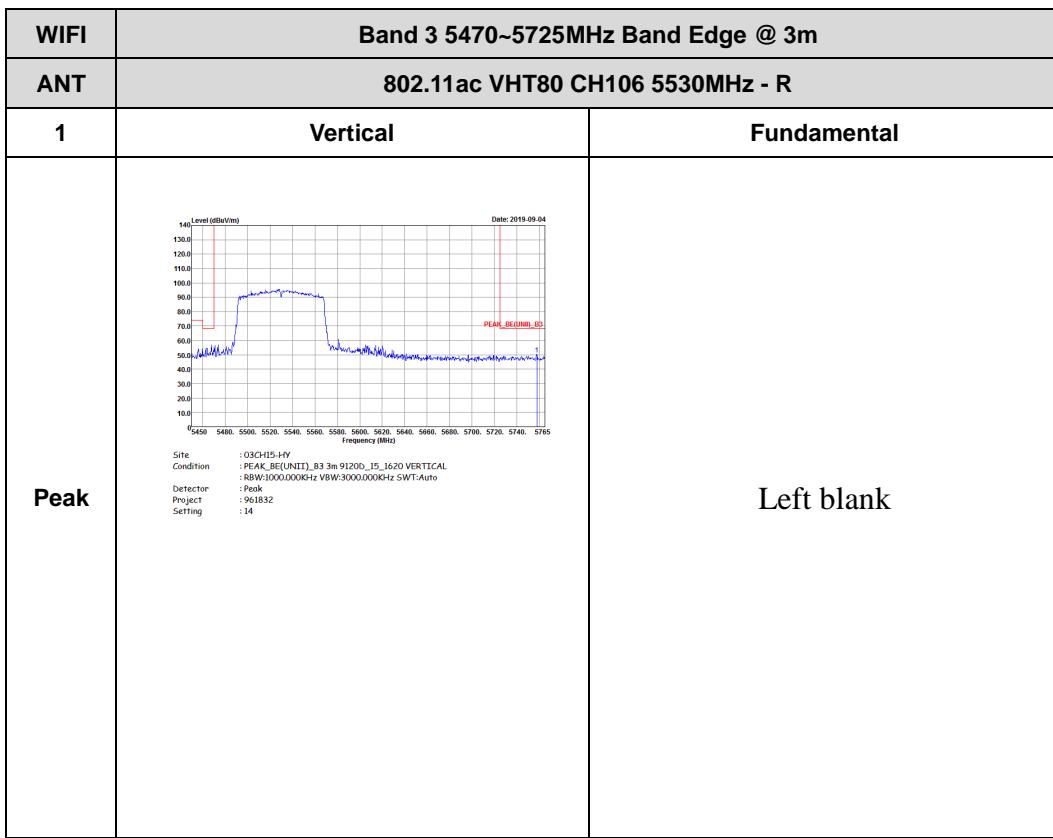
**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 14</p>	 <p>Site : 03CH15-HY Condition : PEAK(I15-INT) 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 14</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE(UNIT), B3 3m 91200_15_1620 HORIZONTAL Detector : R8W:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Setting : 961832 Setting : 14</p>	Left blank

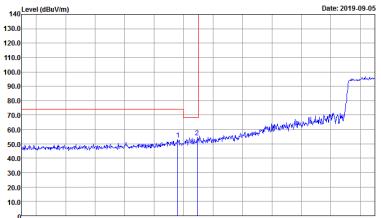
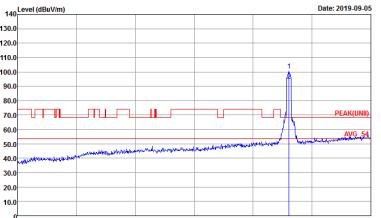
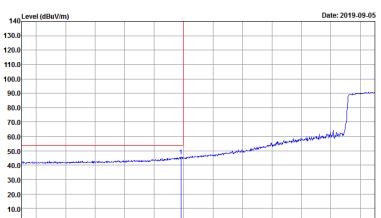


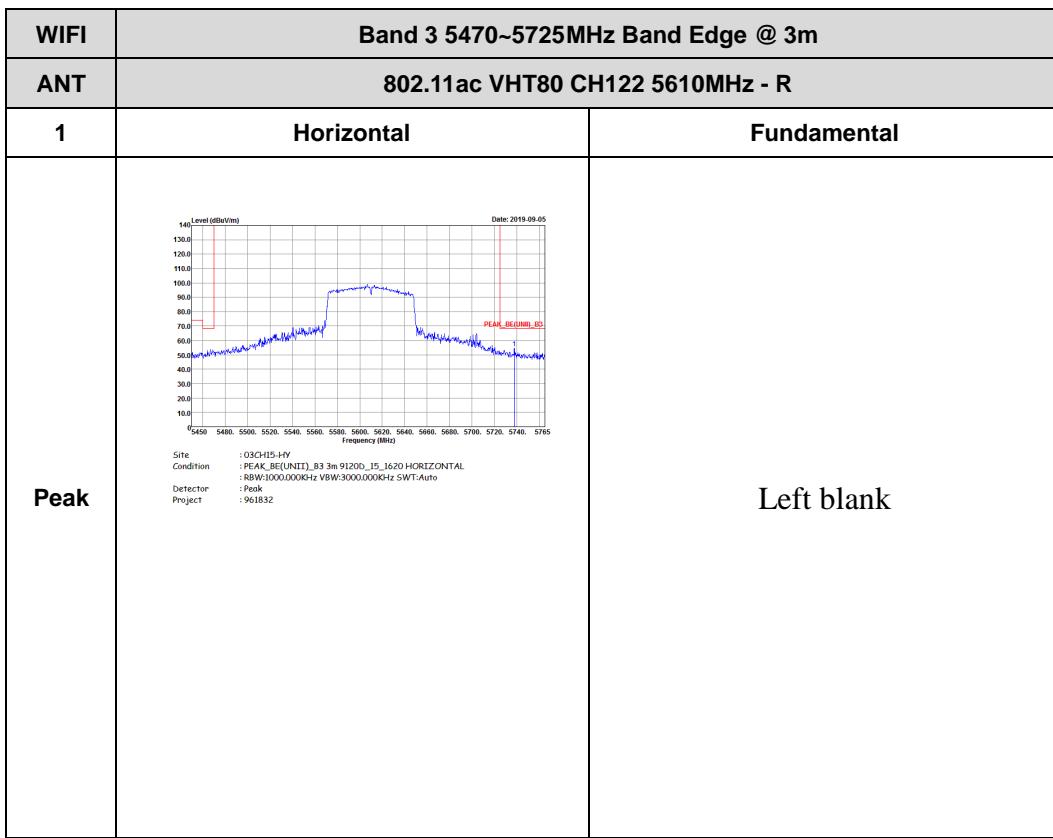


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 14</p>	 <p>Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 14</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 14</p>	Left blank

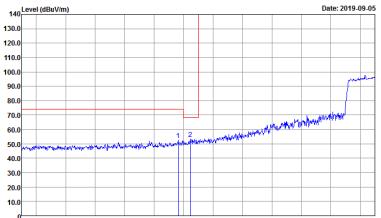
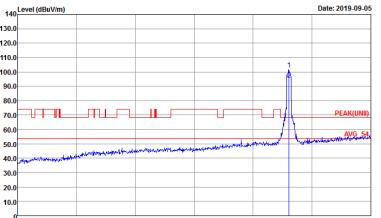
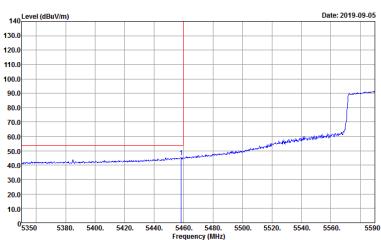


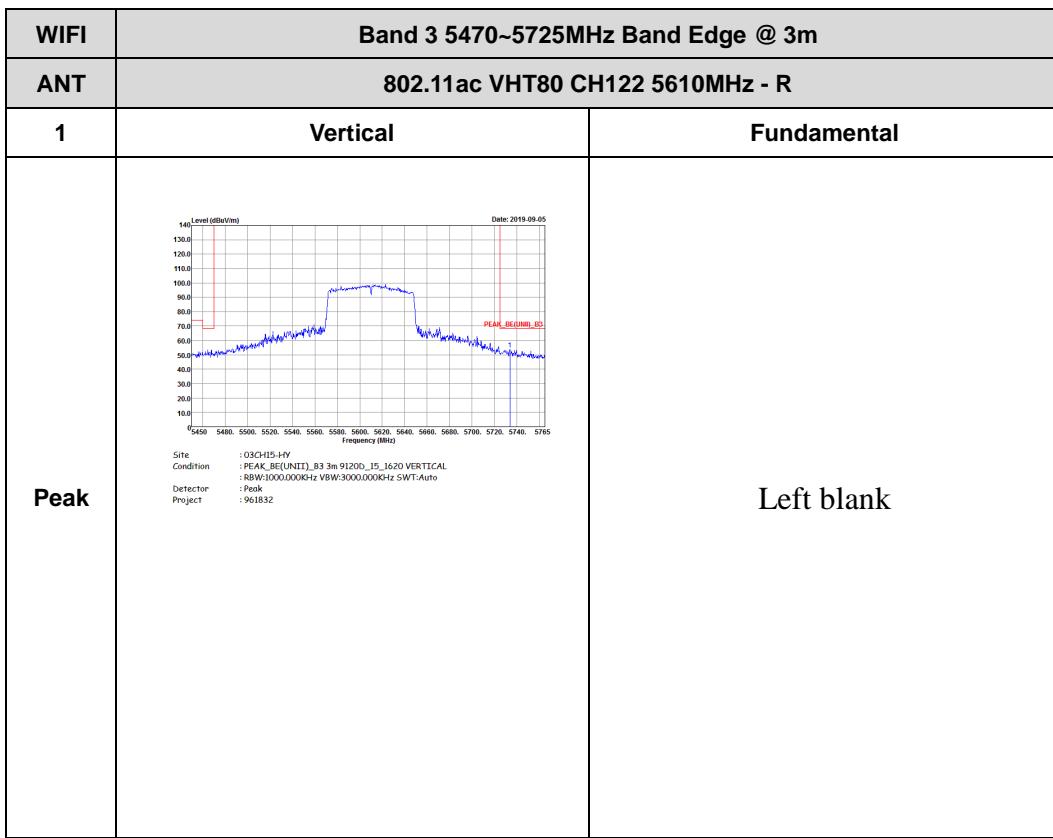


<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH122 5610MHz - L</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank





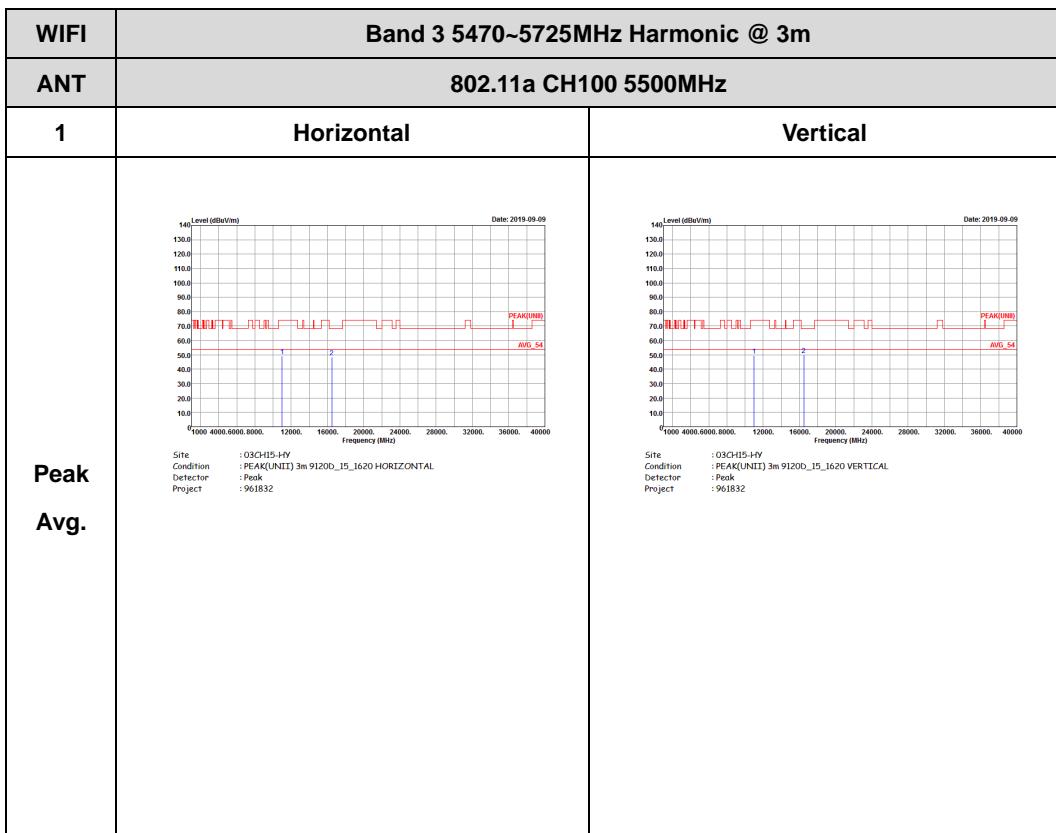
<b>WIFI</b>	<b>Band 3 5470~5725MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH122 5610MHz - L</b>	
<b>1</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 Site : 03CH15-HY Condition : PEAK_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : BBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832
<b>Avg.</b>	 Site : 03CH15-HY Condition : AVG_BED(UNIT)_B3 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 961832	Left blank

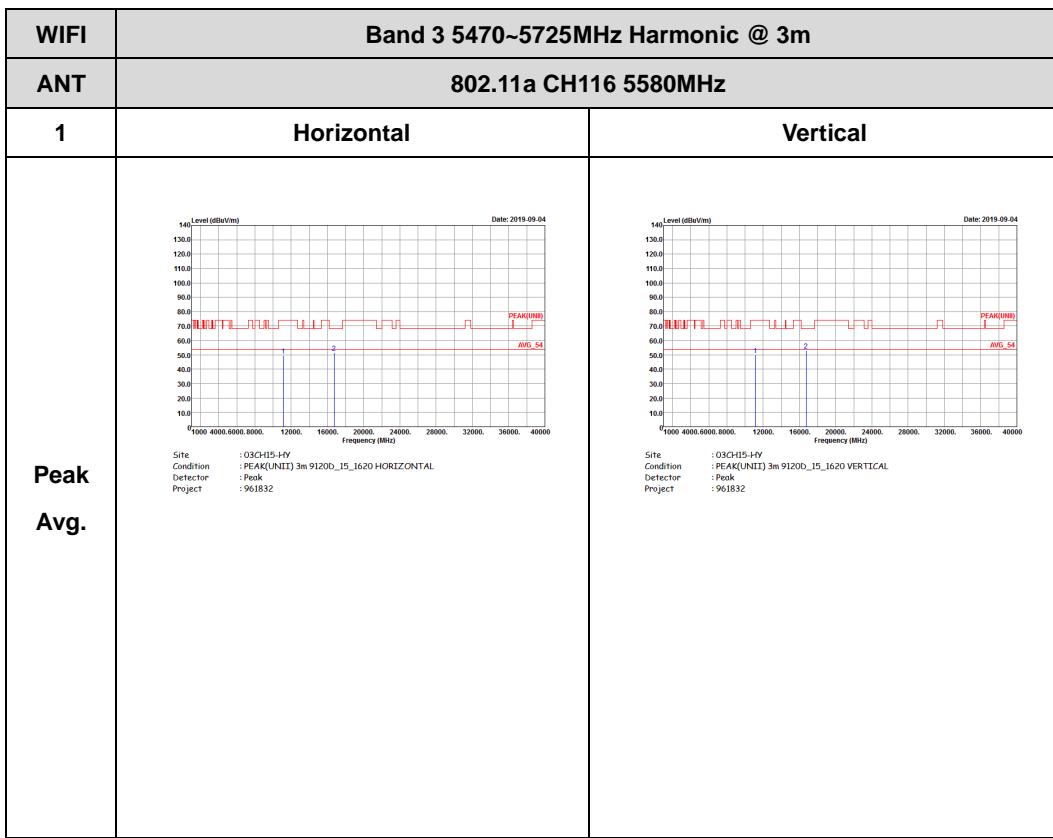


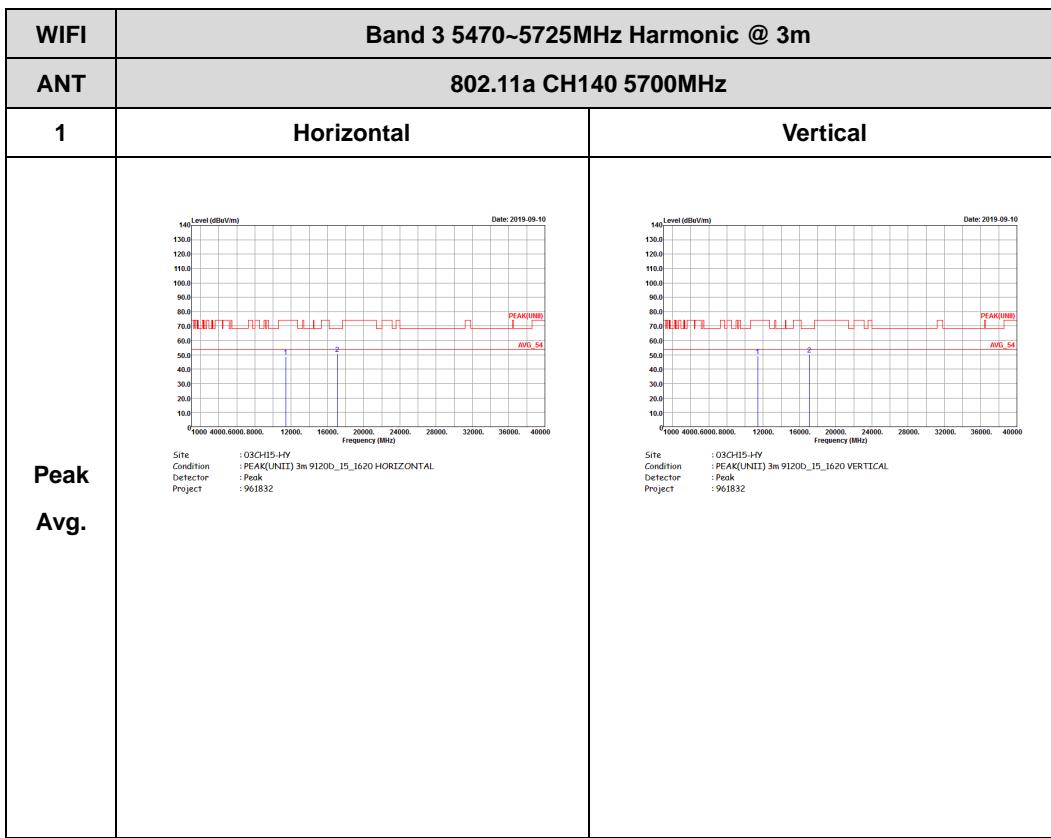


## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

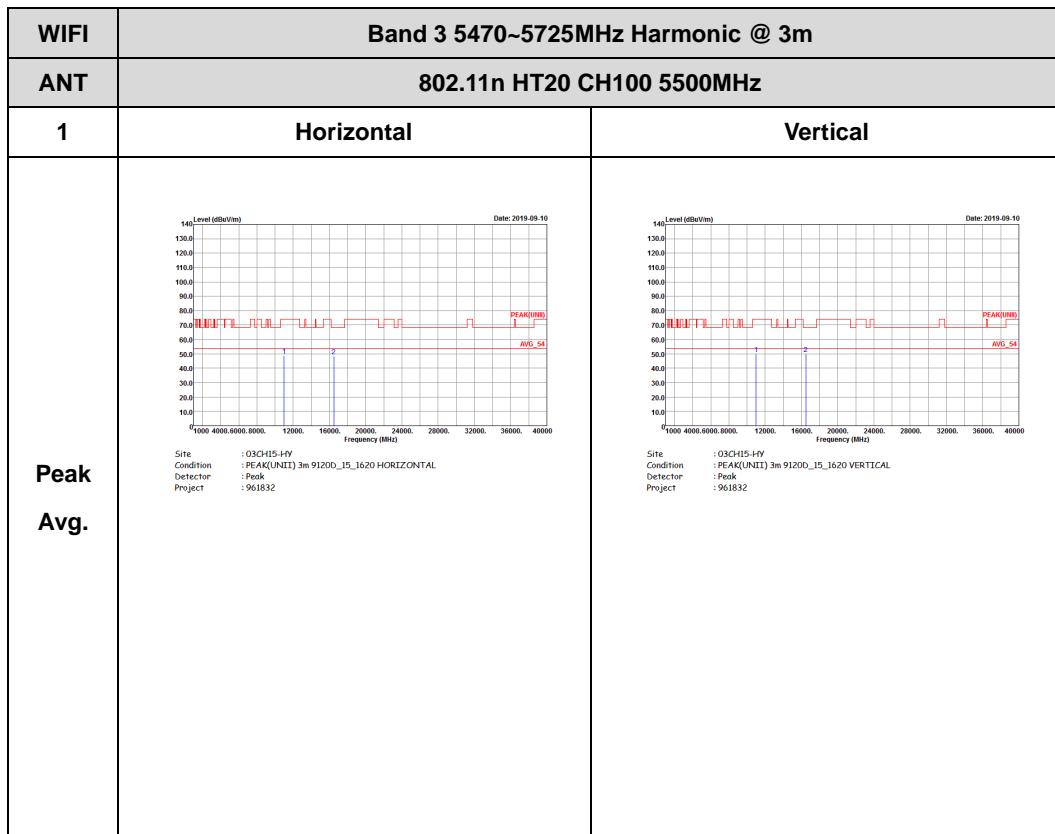


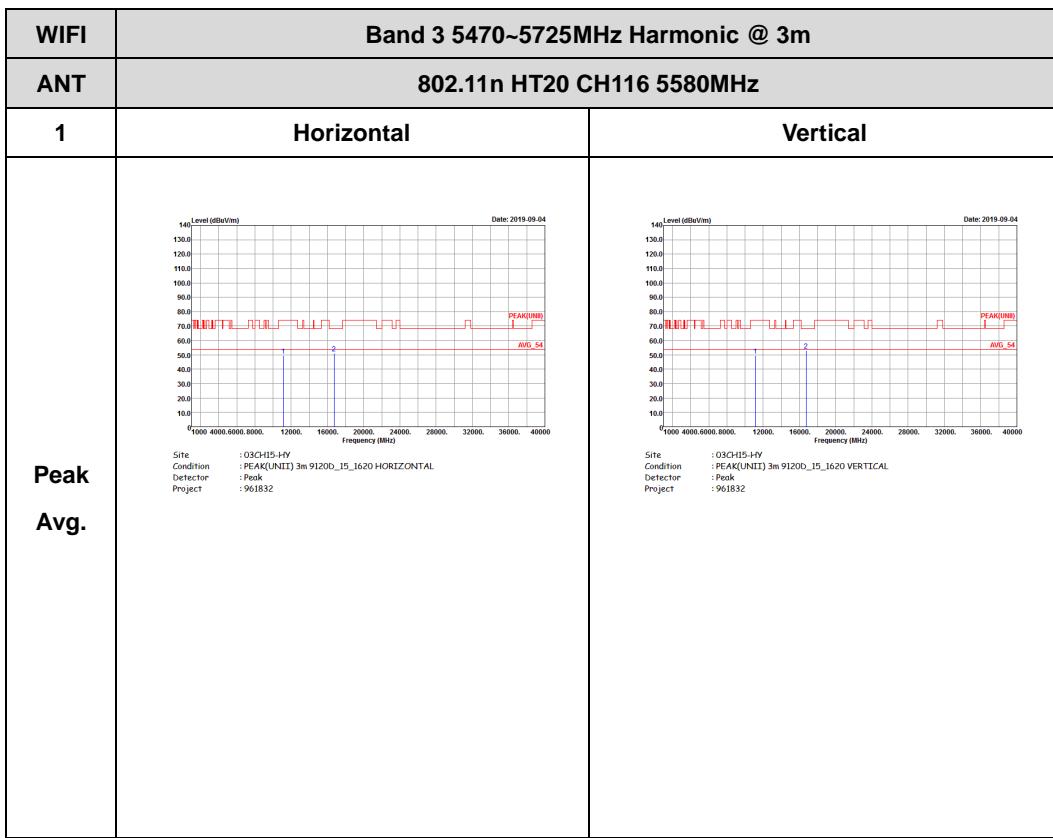


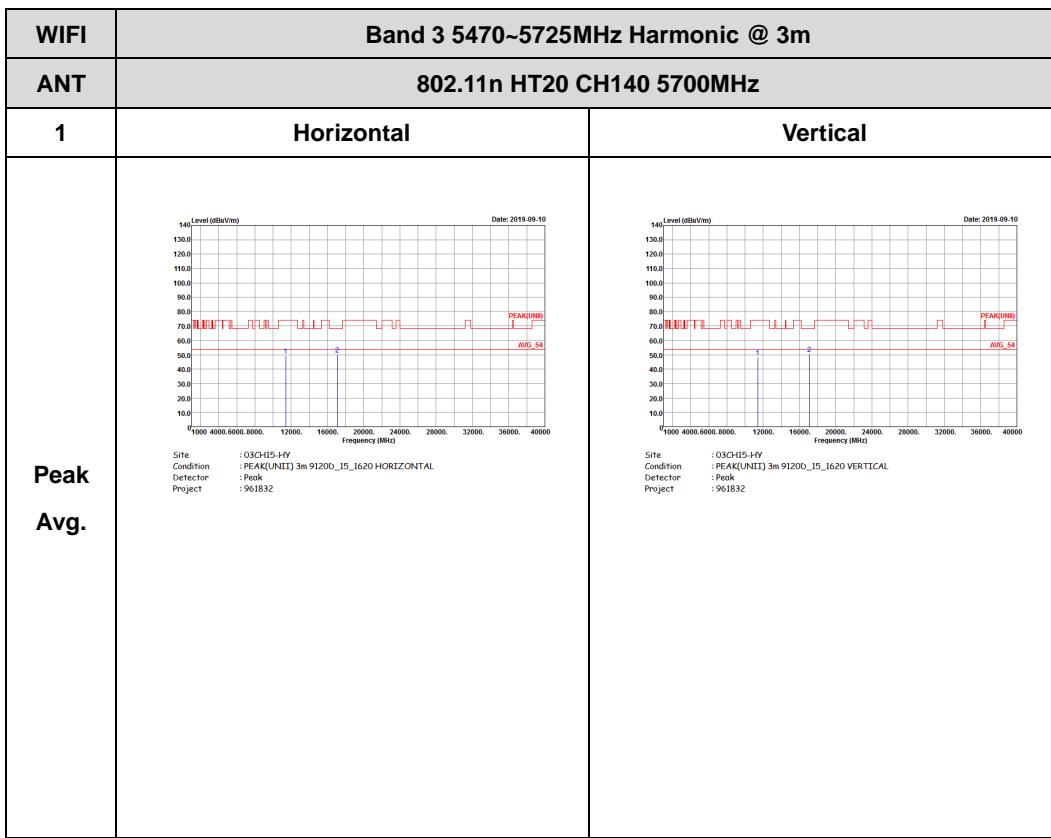




**Band 3 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

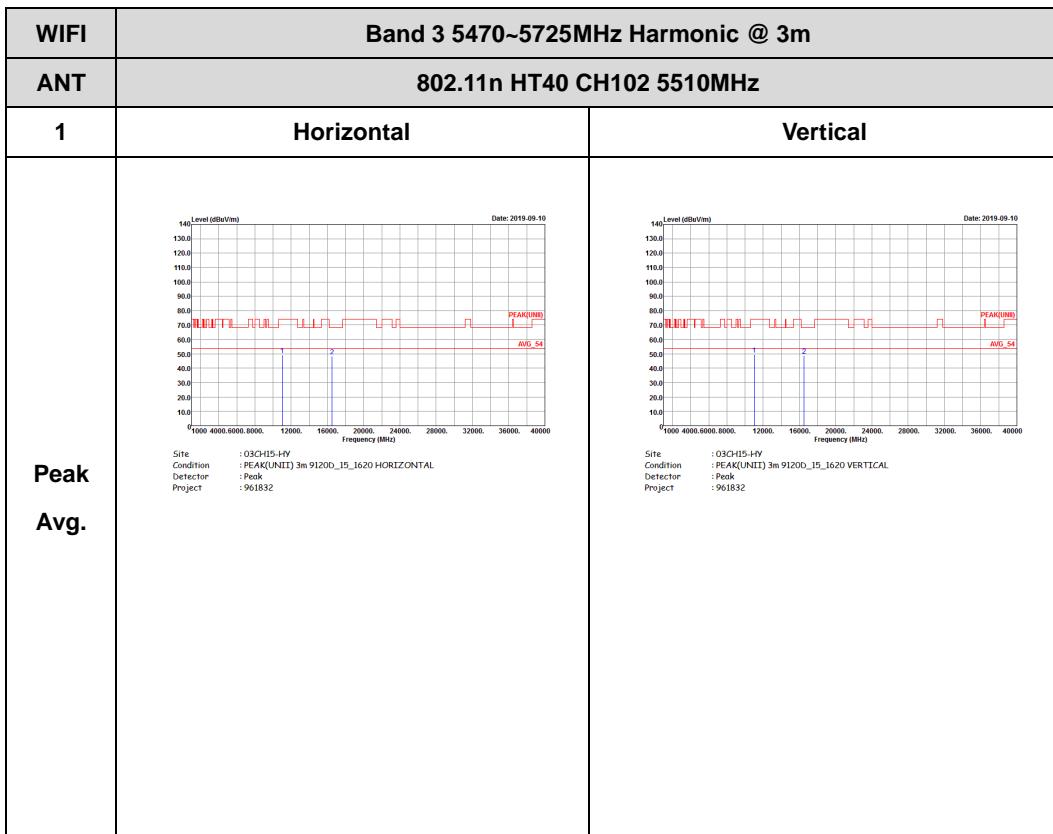


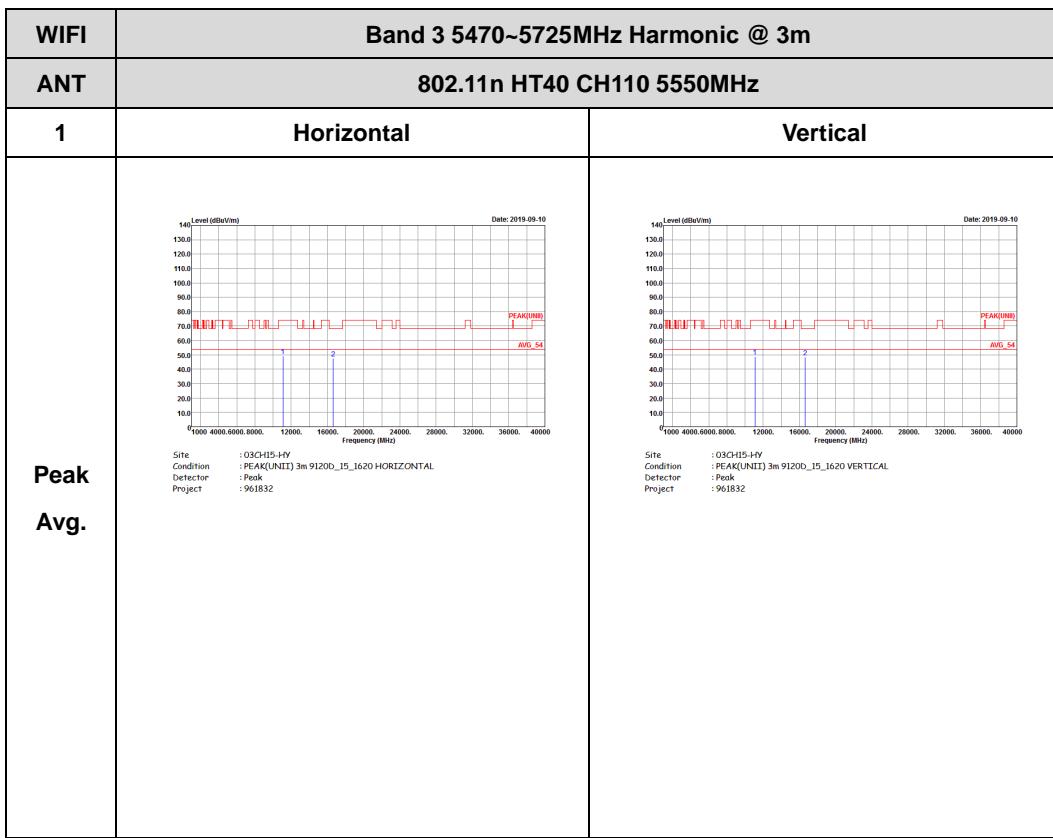


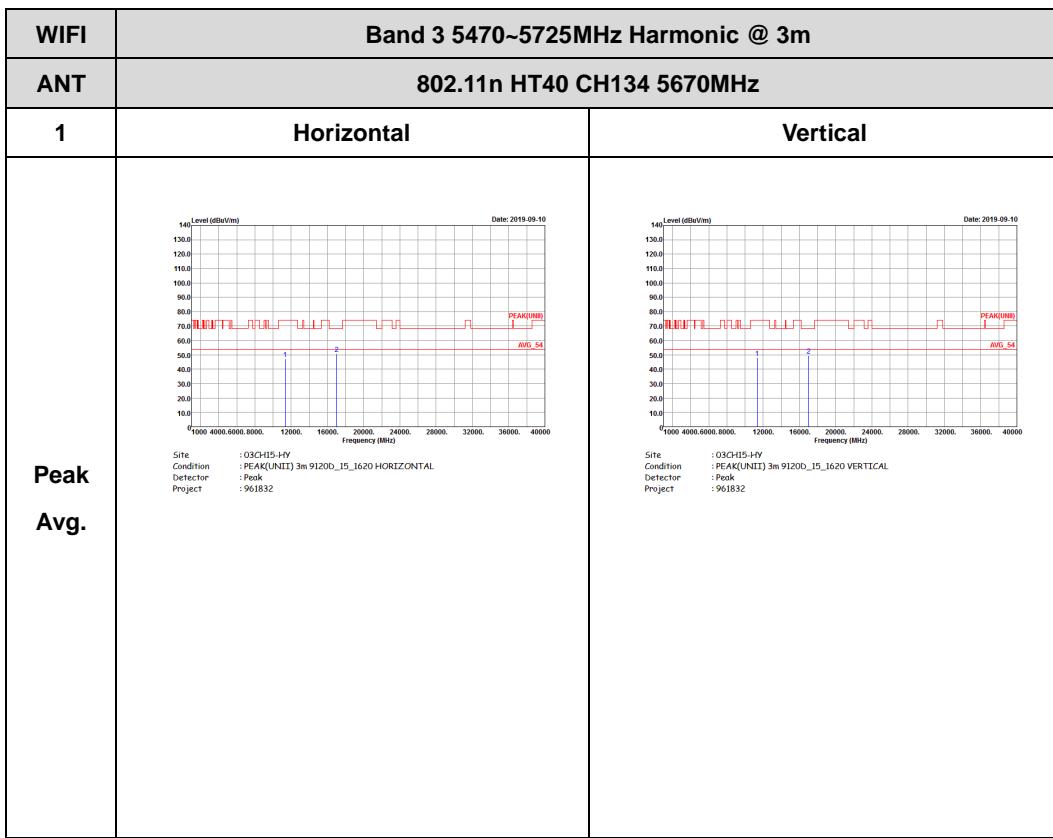




**Band 3 5470~5725MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

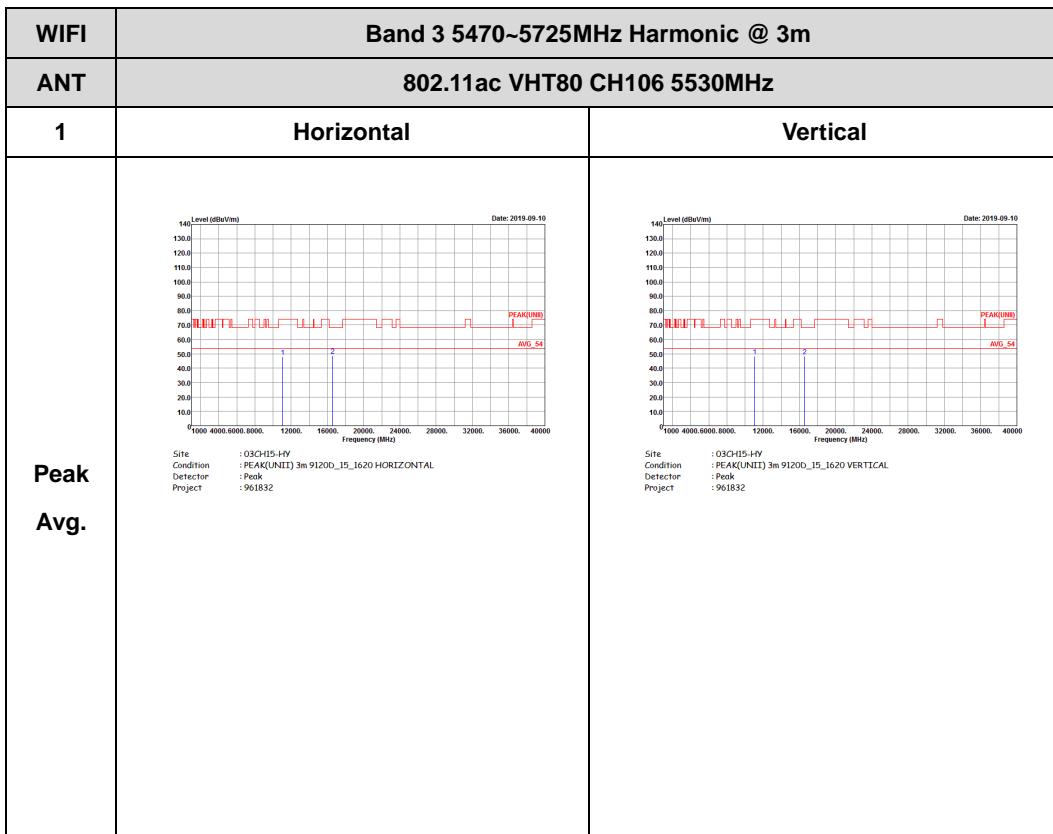


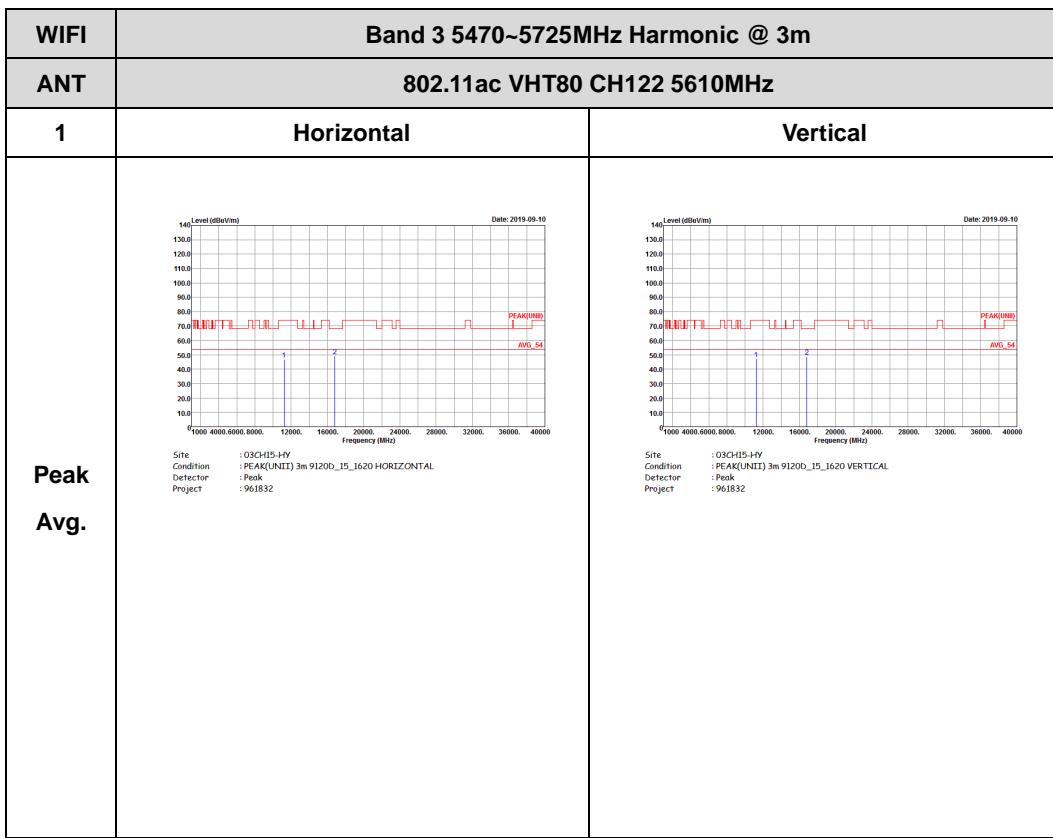






**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

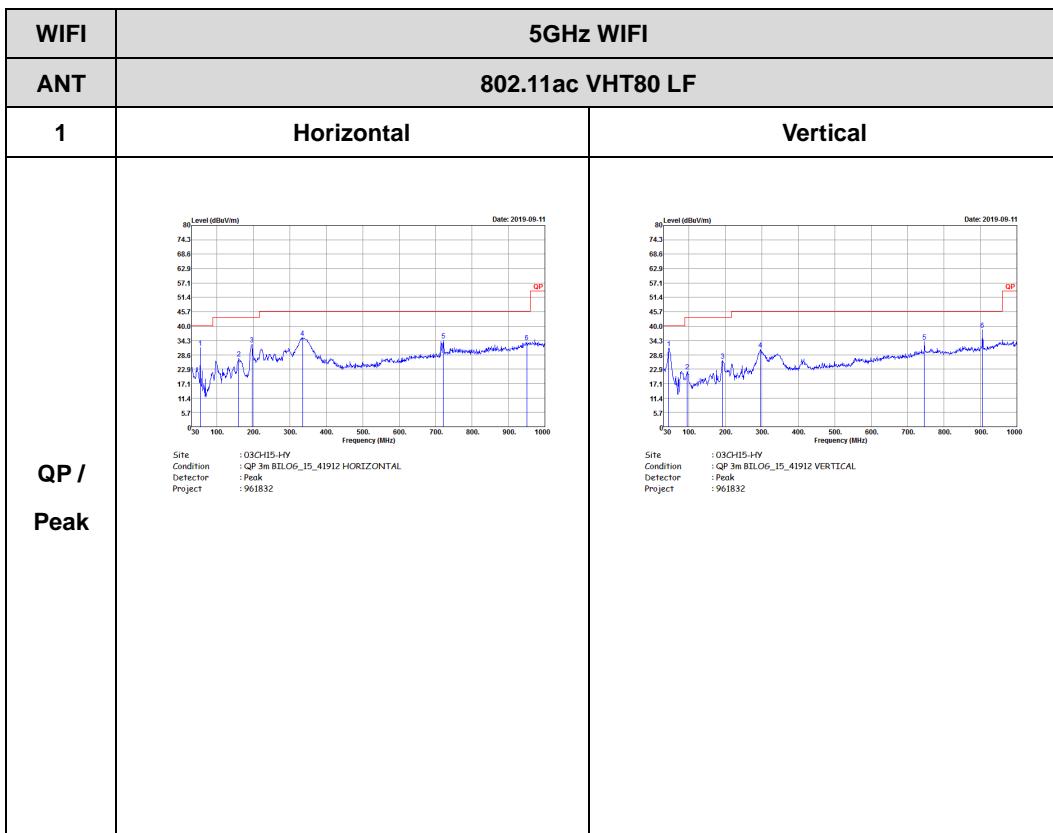






## Emission below 1GHz

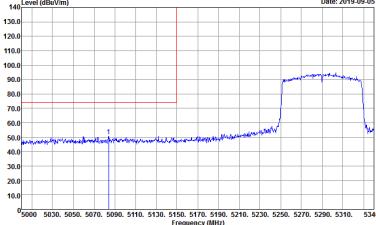
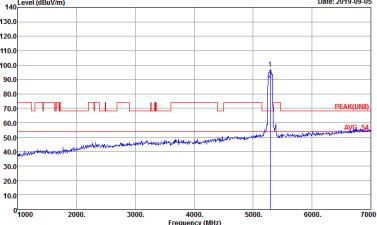
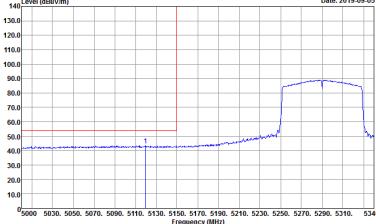
## 5GHz WIFI 802.11ac VHT80 (LF)



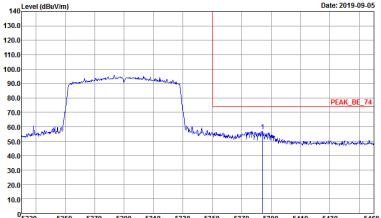
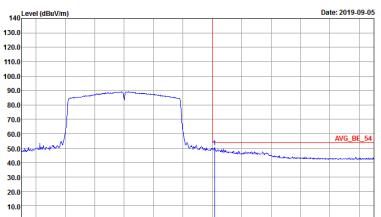


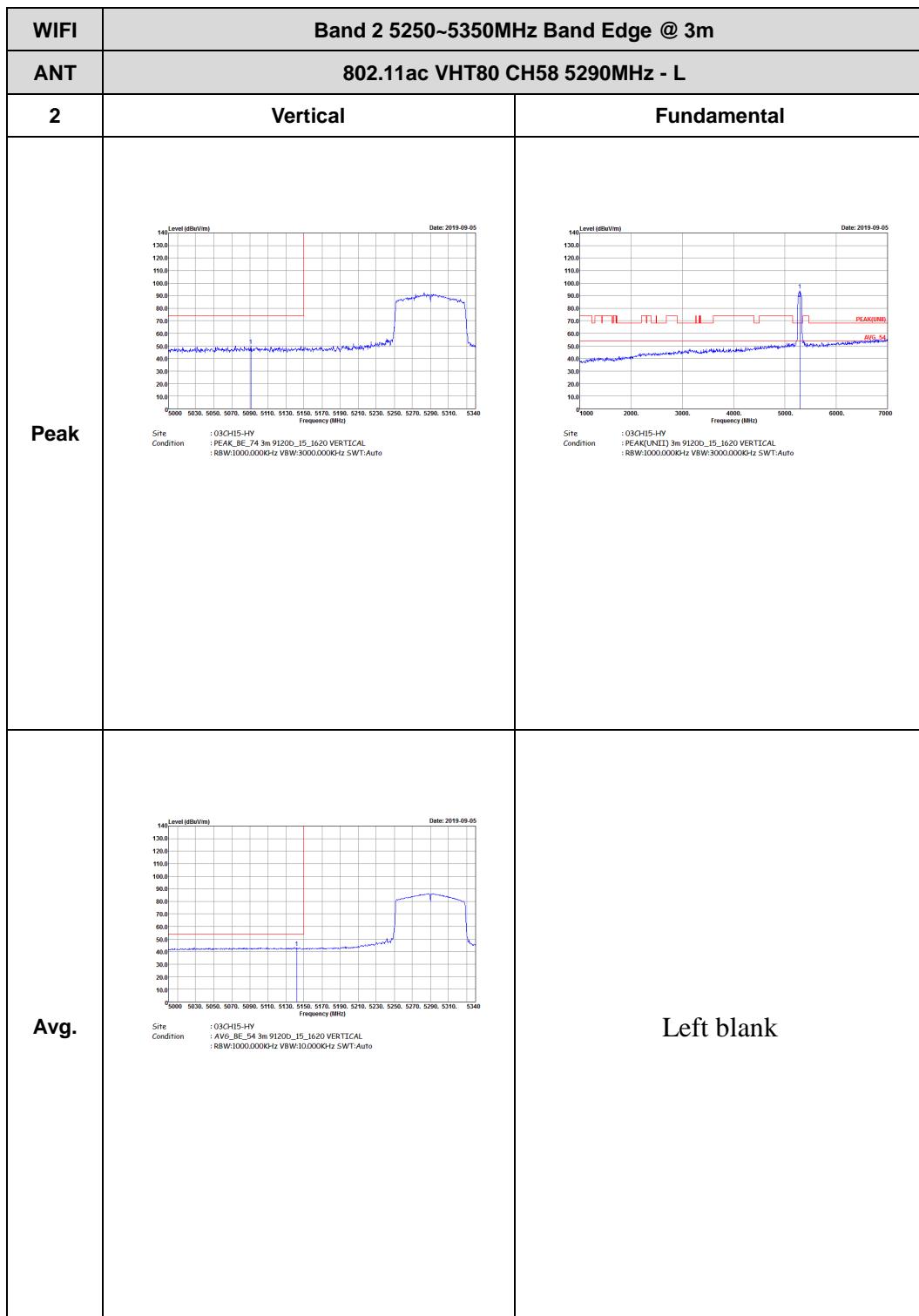
## Band 2 - 5250~5350MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

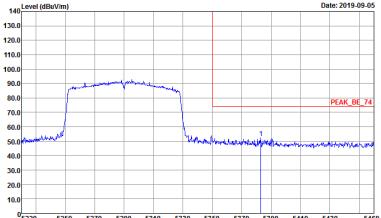
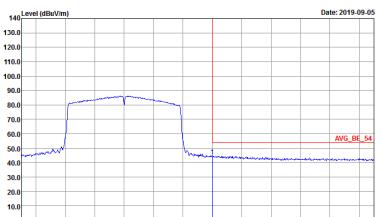
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000Hz VBW:3000.000Hz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000Hz VBW:3000.000Hz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000Hz VBW:10.000Hz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m)</p> <p>Date: 2019-09-05</p> <p>Frequency (MHz)</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Level (dBuV/m)</p> <p>Date: 2019-09-05</p> <p>Frequency (MHz)</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



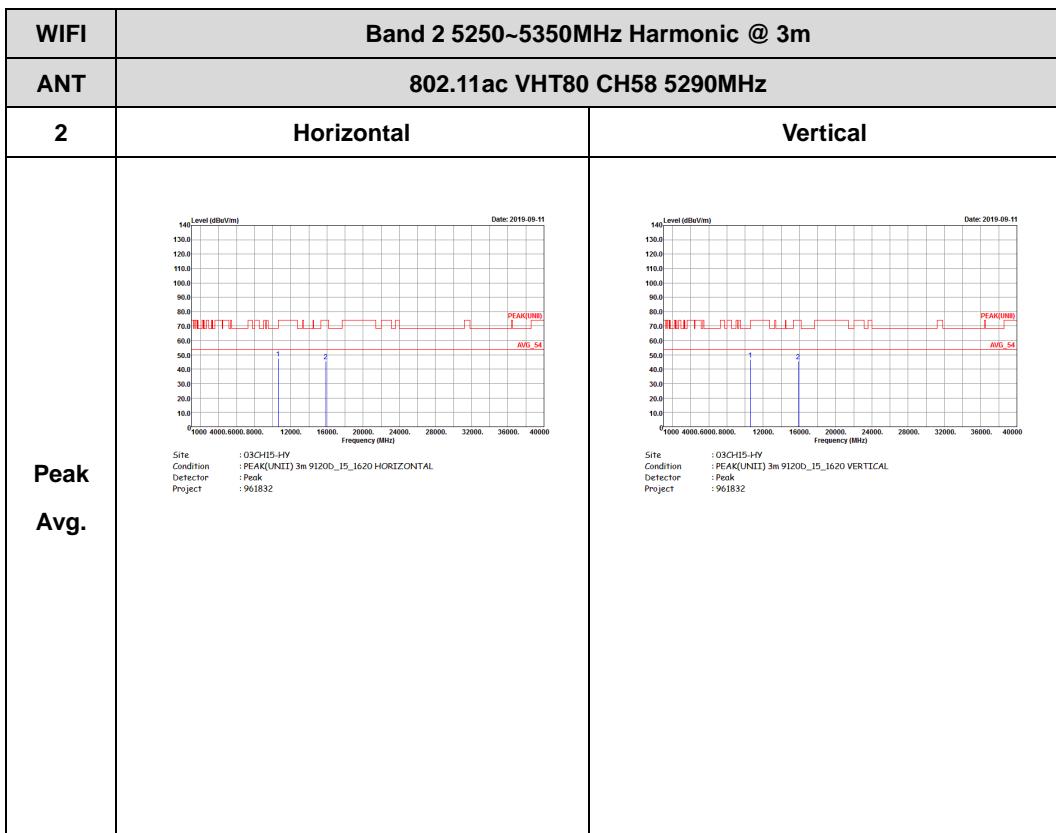


<b>WIFI</b>	<b>Band 2 5250~5350MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH58 5290MHz - R</b>	
<b>2</b>	<b>Vertical</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Site : 030CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
<b>Avg.</b>	 <p>Site : 030CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



## Band 2 - 5250~5350MHz

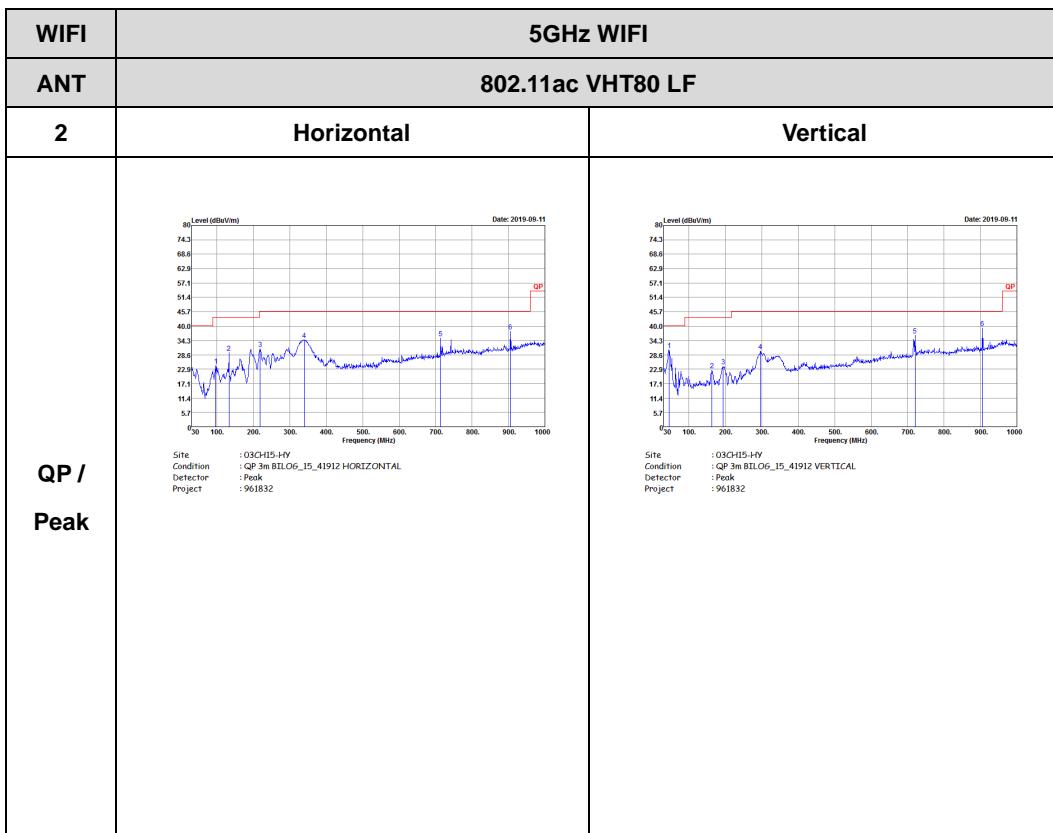
WIFI 802.11ac VHT80 (Harmonic @ 3m)





## Emission below 1GHz

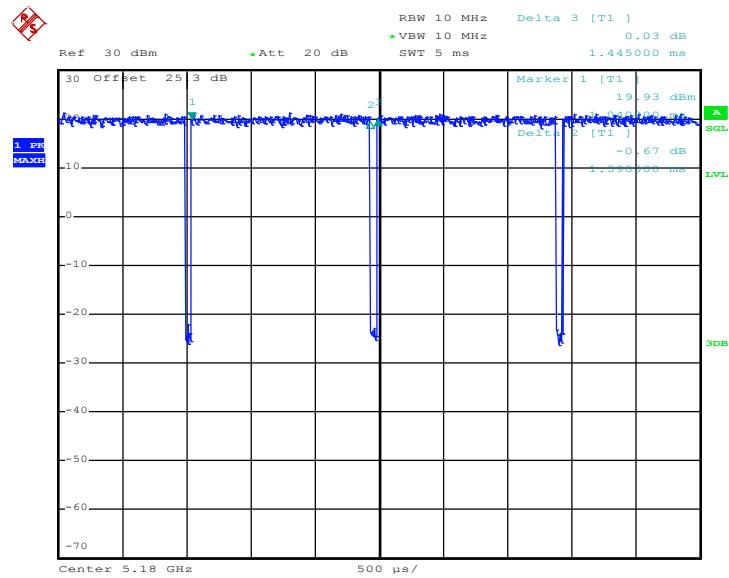
## 5GHz WIFI 802.11ac VHT80 (LF)



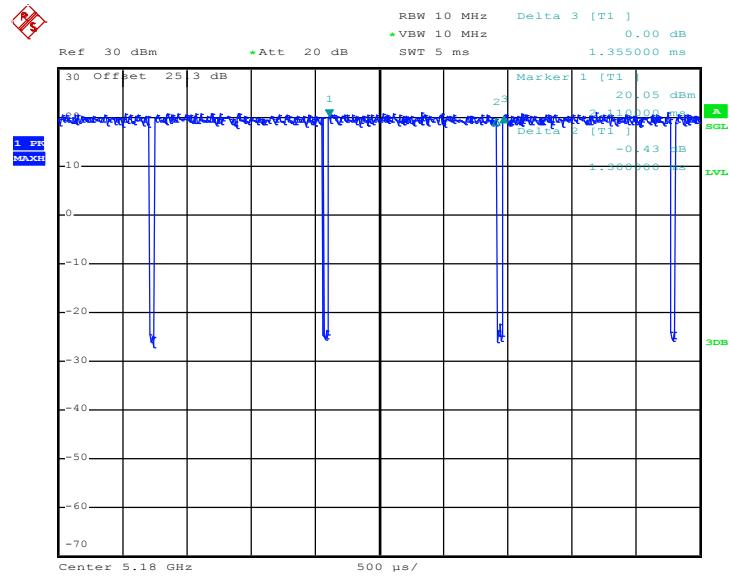


## Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	96.19	1390	0.72	1kHz	0.17
2	802.11a	96.89	1400	0.71	1kHz	0.14
1	5GHz 802.11n HT20	95.94	1300	0.77	1kHz	0.18
2	5GHz 802.11n HT20	96.67	1305	0.77	1kHz	0.15
1	5GHz 802.11n HT40	93.06	644	1.55	3kHz	0.31
2	5GHz 802.11n HT40	93.10	648	1.54	3kHz	0.31
1	5GHz 802.11ac VHT20	96.70	1320	0.76	1kHz	0.15
2	5GHz 802.11ac VHT20	96.70	1320	0.76	1kHz	0.15
1	5GHz 802.11ac VHT40	93.14	652	1.51	3kHz	0.31
2	5GHz 802.11ac VHT40	93.17	655	1.53	3kHz	0.31
1	5GHz 802.11ac VHT80	88.04	324	3.09	10kHz	0.55
2	5GHz 802.11ac VHT80	87.50	322	3.11	10kHz	0.58

**<Ant. 1>**
**802.11a**


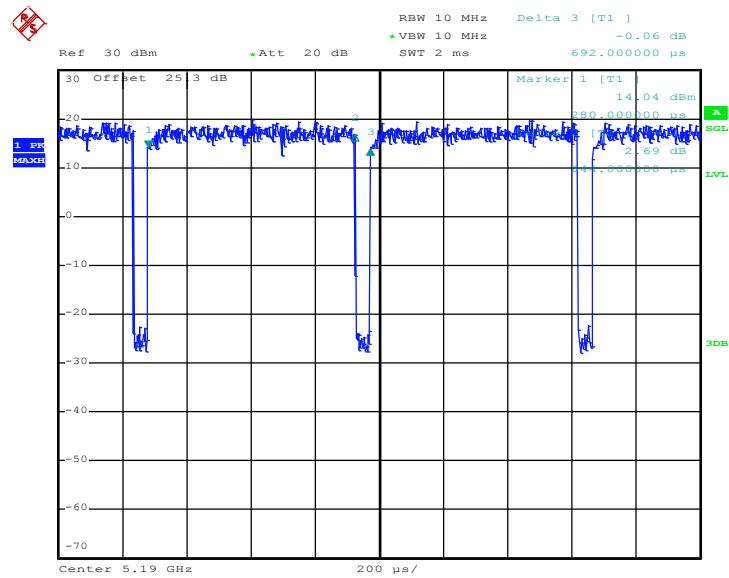
Date: 14.AUG.2019 05:37:57

**802.11n HT20**


Date: 14.AUG.2019 05:40:19

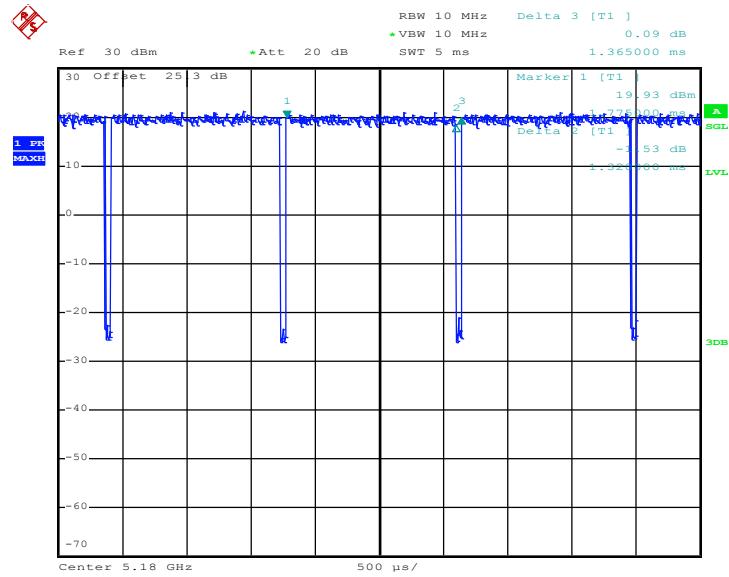


## 802.11n HT40



Date: 14.AUG.2019 05:42:05

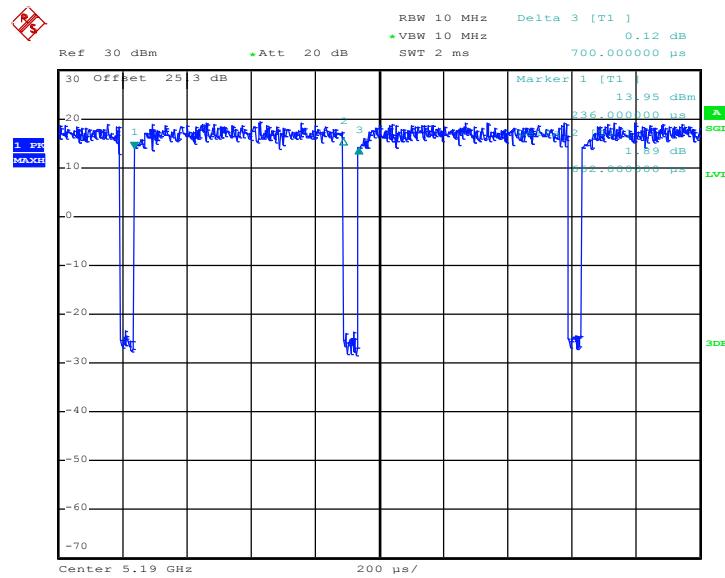
## 802.11ac VHT20



Date: 14.AUG.2019 05:44:41

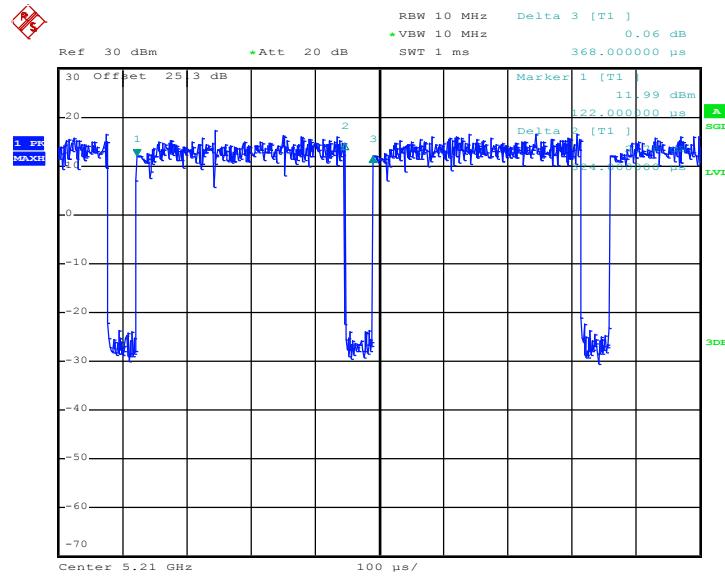


## 802.11ac VHT40



Date: 14.AUG.2019 05:46:00

## 802.11ac VHT80



Date: 14.AUG.2019 05:49:09

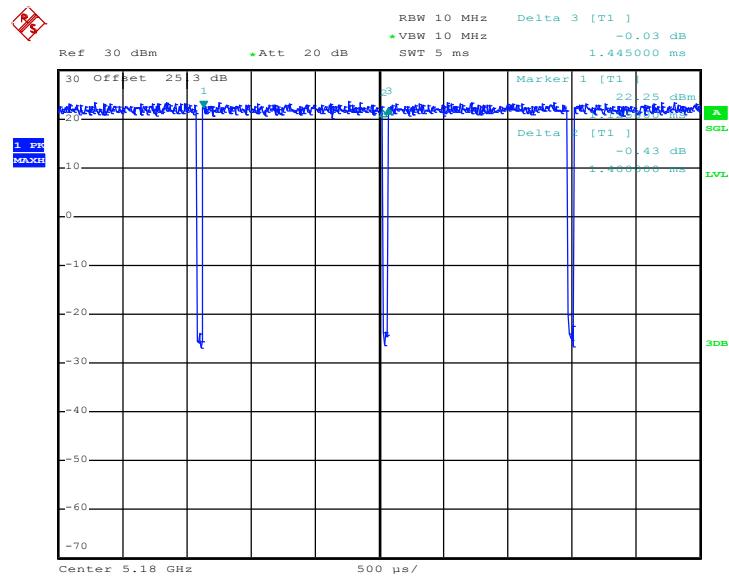


## **FCC RADIO TEST REPORT**

Report No. : FR961832E

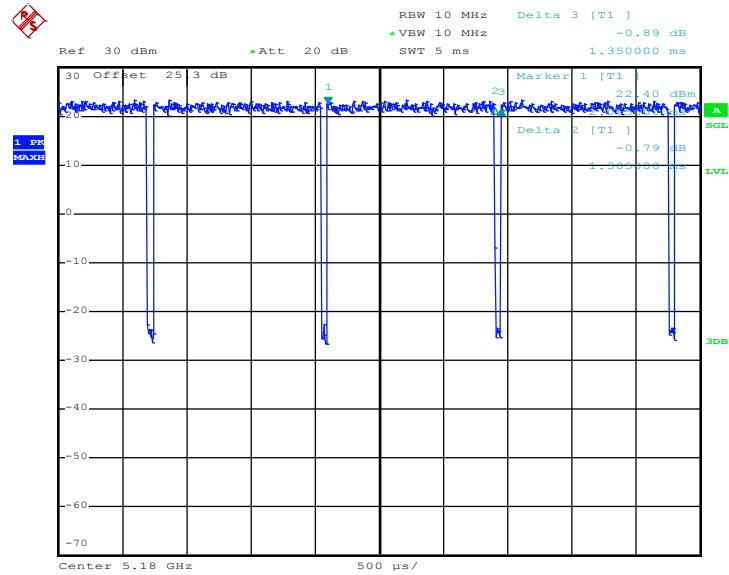
<Ant. 2>

802.11a



Date: 14.AUG.2019 05:38:37

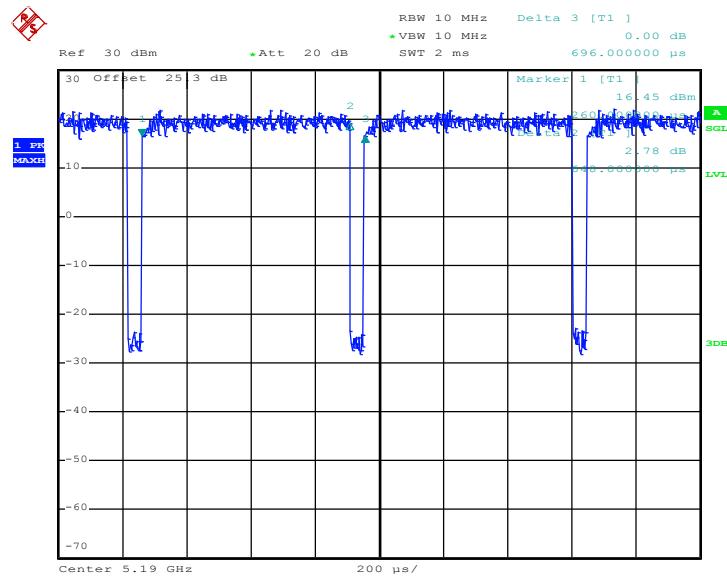
802.11n HT20



Date: 14.AUG.2019 05:39:28

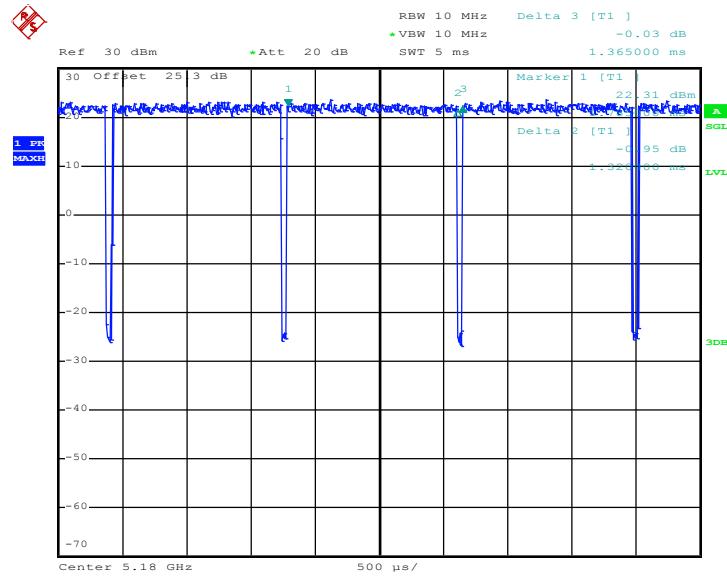


## 802.11n HT40



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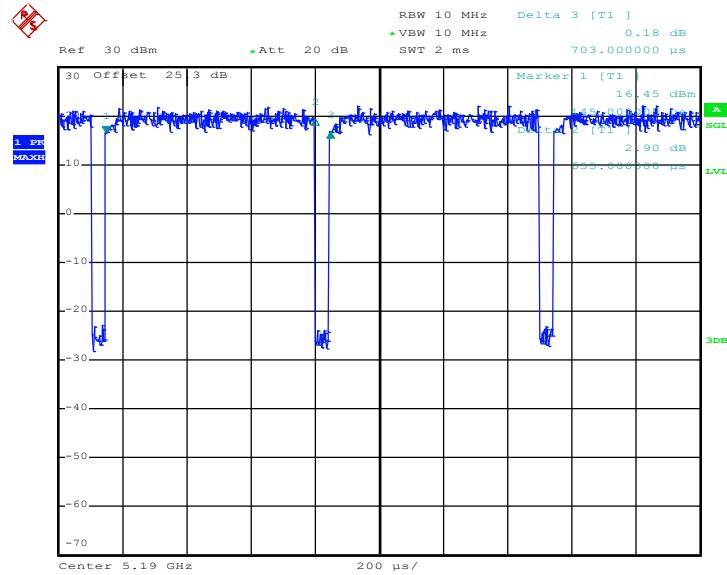
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Date: 14.AUG.2019 05:44:13

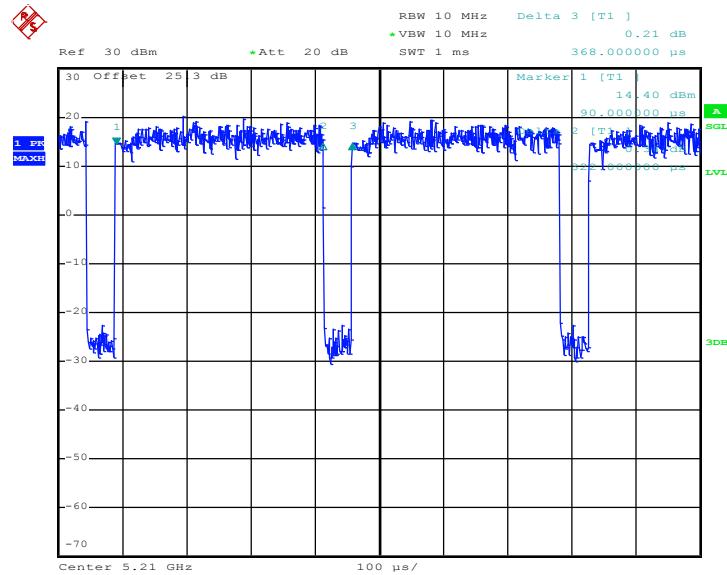


## 802.11ac VHT40



Date: 14.AUG.2019 05:47:02

## 802.11ac VHT80



Date: 14.AUG.2019 05:48:22

—————THE END—————