



FCC RADIO TEST REPORT

FCC ID : 2AFZZ-XMSD2SG
Equipment : Mobile Phone
Brand Name : MI
Model Name : M1804D2SG
Applicant : Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO. 68, Qinghe
Middle Street, Haidian District, Beijing, China
Manufacturer : Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO. 68, Qinghe
Middle Street, Haidian District, Beijing, China
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 04, 2018 and testing was started from May 12, 2018 and completed on Jun. 07, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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

Approved by: Jones Tsai

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode	8
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example.....	11
3 Test Result	12
3.1 26dB & 99% Occupied Bandwidth Measurement	12
3.2 Maximum Conducted Output Power Measurement	14
3.3 Power Spectral Density Measurement	16
3.4 Unwanted Emissions Measurement	19
3.5 AC Conducted Emission Measurement.....	24
3.6 Automatically Discontinue Transmission	26
3.7 Antenna Requirements	27
4 List of Measuring Equipment.....	28
5 Uncertainty of Evaluation.....	30
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



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 3.32 dB at 45.930 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 8.56 dB at 0.508 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Polly Tsai



1 General Description

1.1 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, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Coupling type (LDS) Antenna WLAN: Coupling type (LDS) Antenna Bluetooth: Coupling type (LDS) Antenna GPS/A-GPS/Glonass/BDS/Galileo/SBAS/VOIP: Coupling type (LDS) Antenna

1.2 Modification of EUT

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

1.3 Testing Location

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

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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY	

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



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

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



2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz 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
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

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

2.2 Test Mode

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

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: WLAN (5GHz) Link + Bluetooth Link + SD Card + MPEG4 (Color Bar) + Type-C USB Cable 1 (Charging from Adapter 2) + SIM 1
Remark: For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 1.	



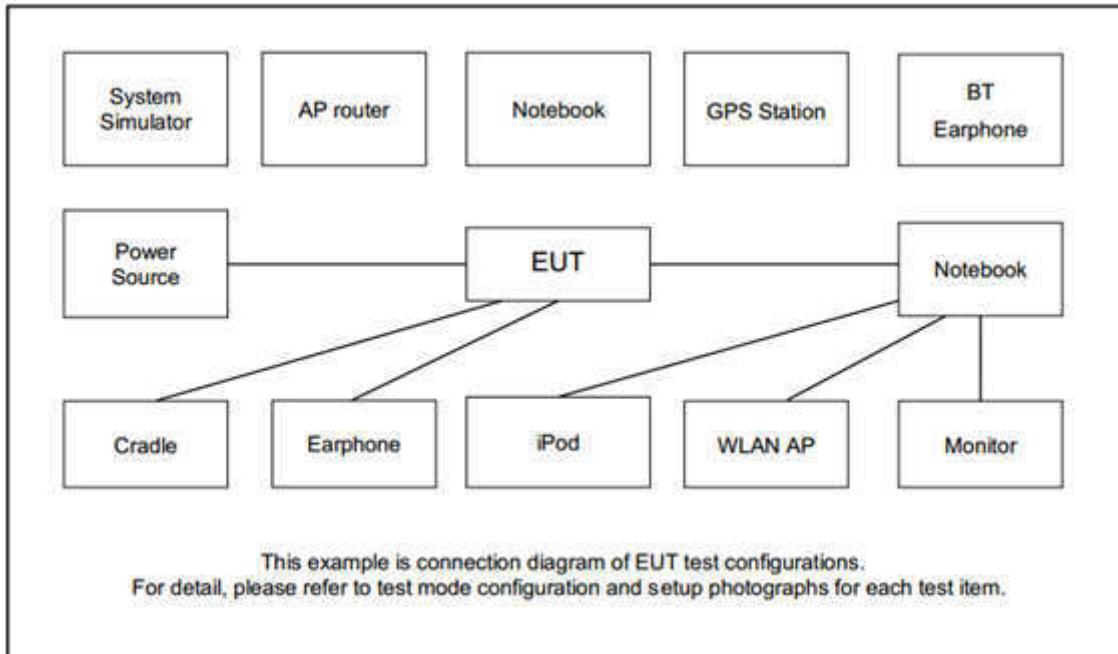
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

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

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

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, 1.8m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

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



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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



3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

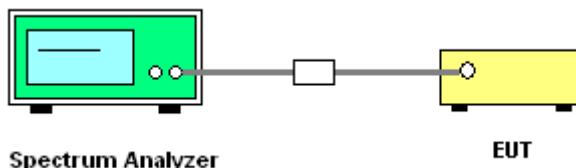
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

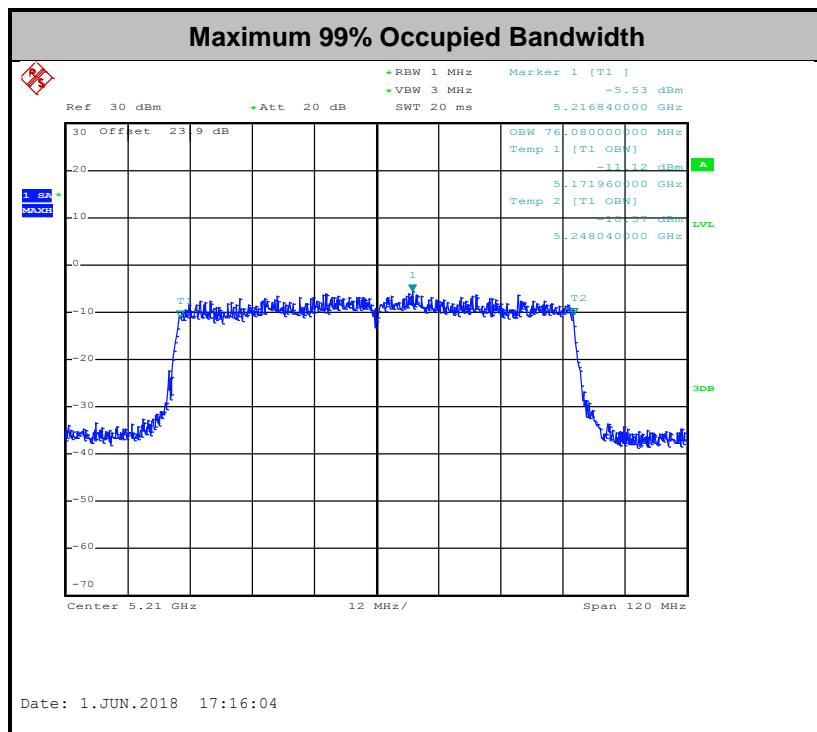
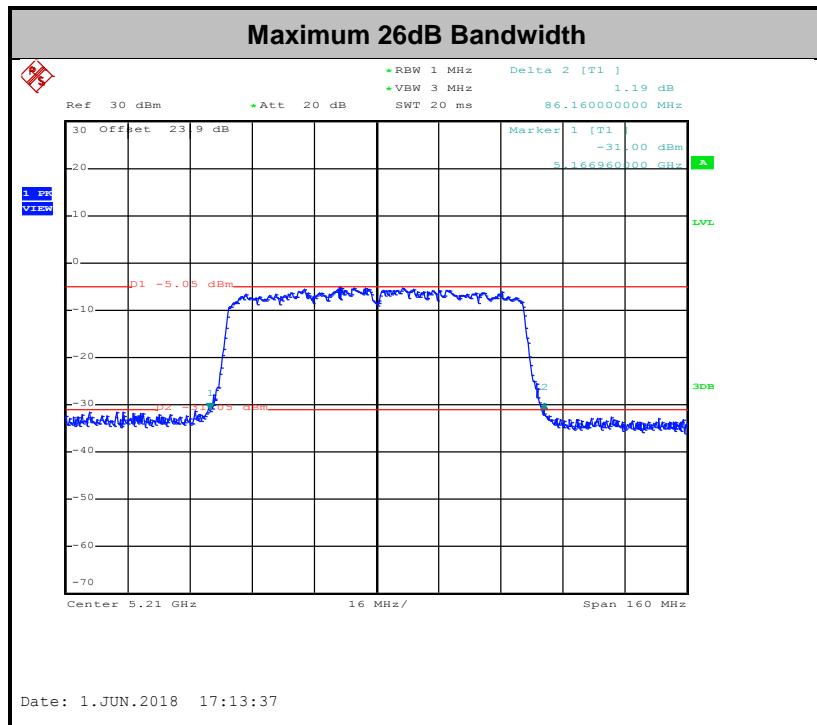
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

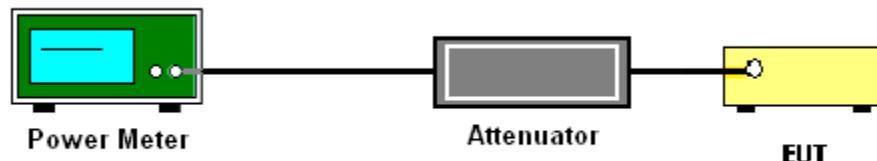
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.



3.3.3 Test Procedures

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

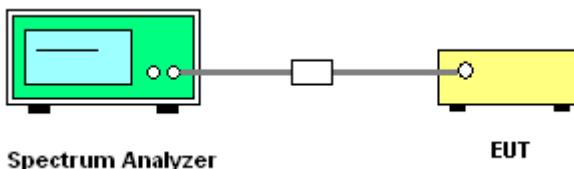
Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

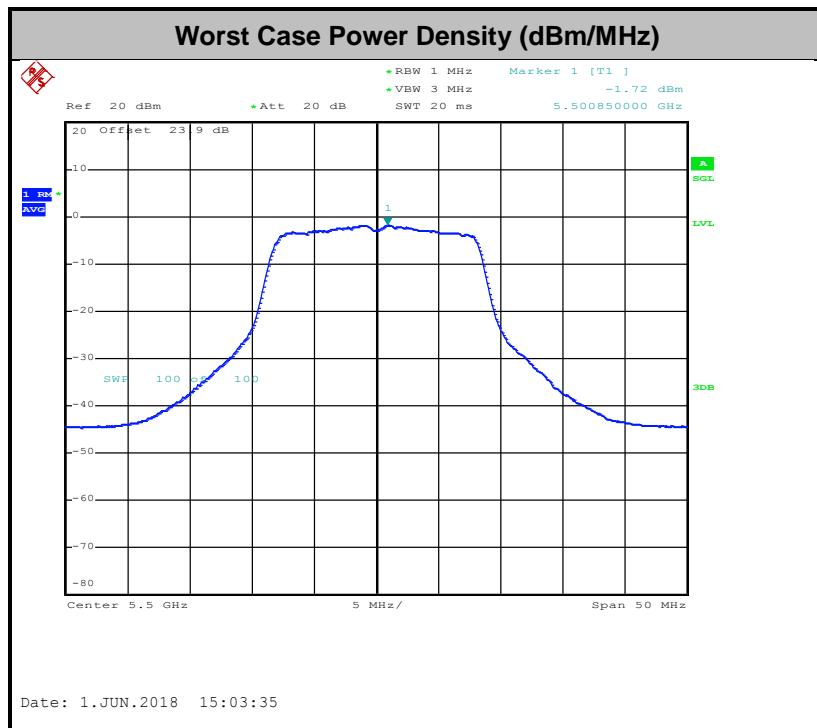
3.3.4 Test Setup





3.3.6 Test Result of Power Spectral Density

Please refer to Appendix A.



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



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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



EIRP (dBm)	Field Strength at 3m (dB μ V/m)
- 27	68.3

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold

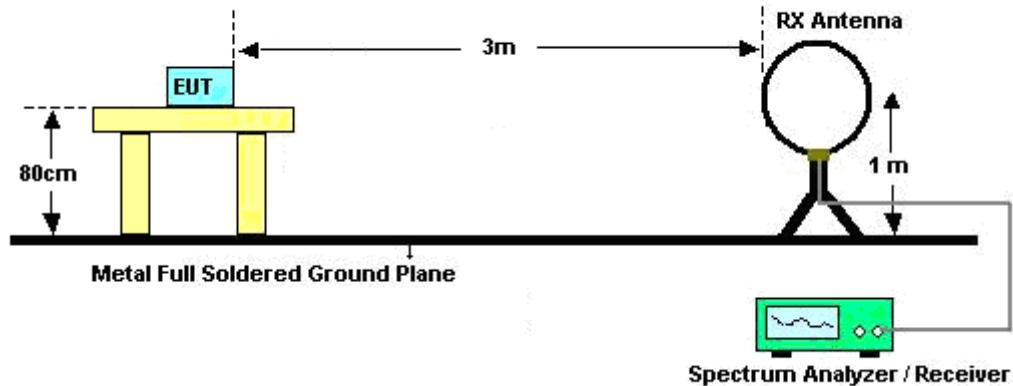


(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

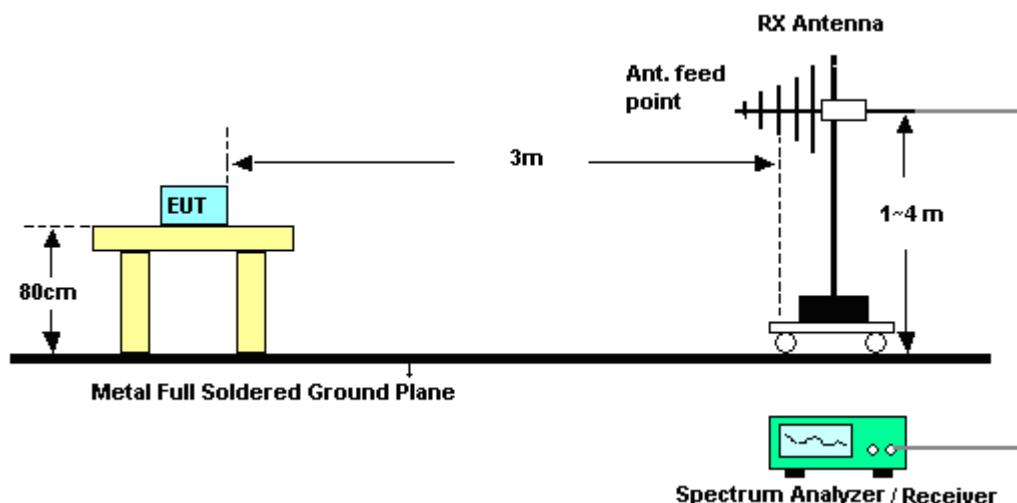
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. 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

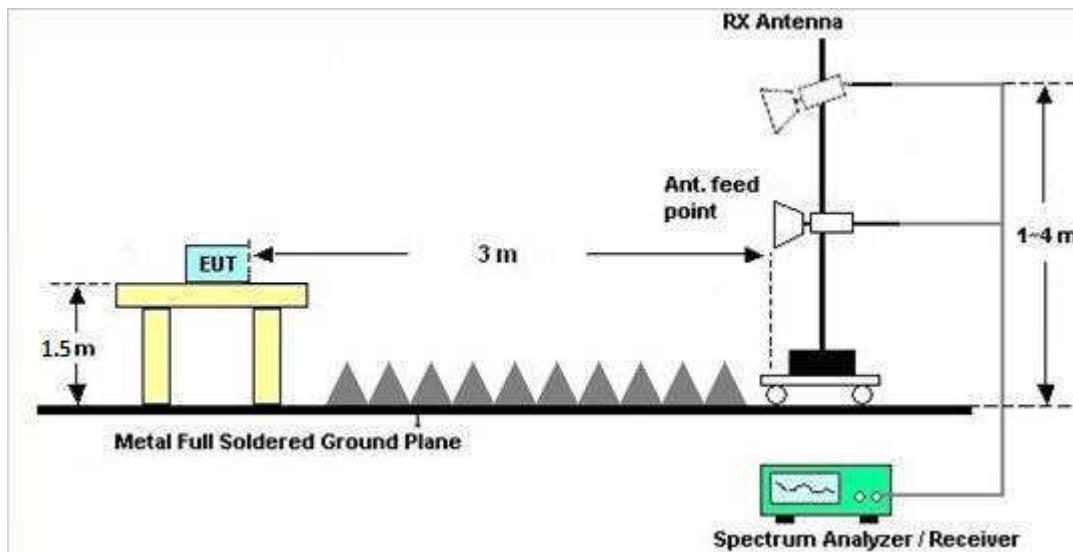
For radiated emissions below 30MHz



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 semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C 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 μ 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.

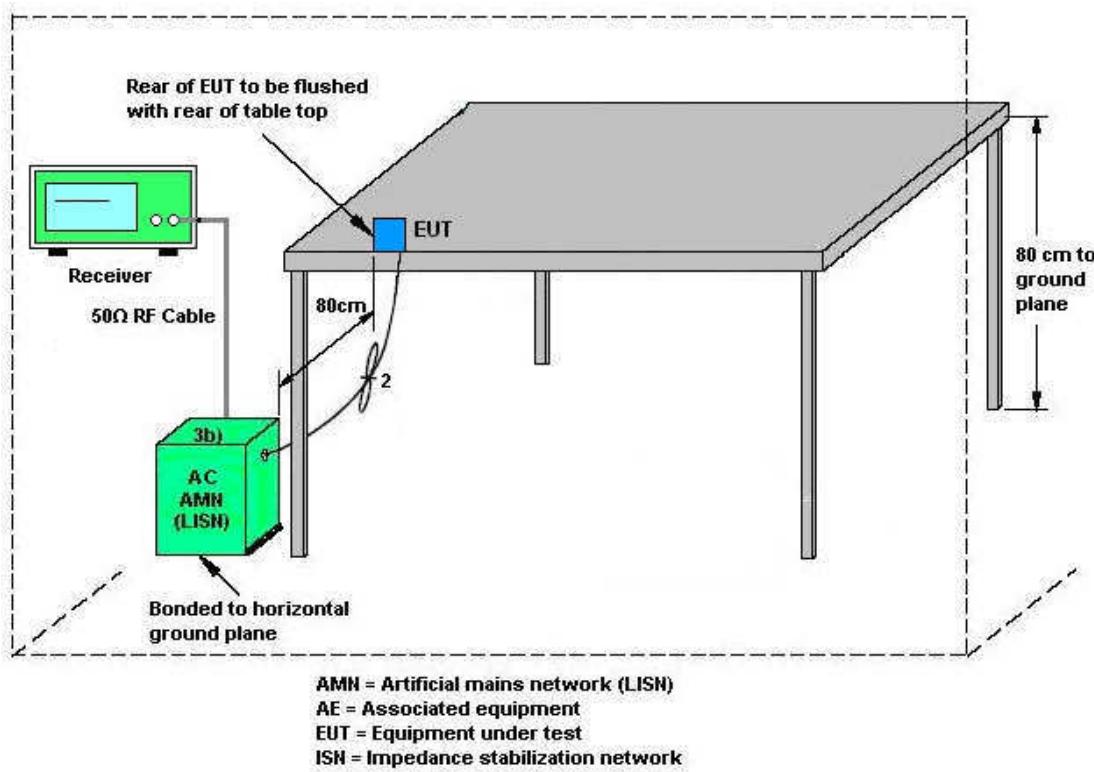
3.5.2 Measuring Instruments

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
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	May 12, 2018~Jun. 01, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	May 12, 2018~Jun. 01, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	May 12, 2018~Jun. 01, 2018	Jun. 19, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	May 12, 2018~Jun. 01, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 07, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 07, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 07, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Test Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 07, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 07, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 07, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	May 16, 2018~Jun. 01, 2018	Jul. 17, 2018	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	May 16, 2018~Jun. 01, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	May 16, 2018~Jun. 01, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 16, 2017	May 16, 2018~Jun. 01, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	May 16, 2018~Jun. 01, 2018	Nov. 22, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Jan. 16, 2018	May 16, 2018~Jun. 01, 2018	Jan. 15, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2017	May 16, 2018~Jun. 01, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 16, 2018~Jun. 01, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 16, 2018~Jun. 01, 2018	N/A	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	May 16, 2018~Jun. 01, 2018	Nov. 26, 2018	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3	1710001800054002	1GHz~18GHz	Apr. 17, 2018	May 16, 2018~Jun. 01, 2018	Apr. 16, 2019	Radiation (03CH11-HY)



FCC RADIO TEST REPORT

Report No. : FR850432D

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	9K-30M	Mar. 20, 2018	May 16, 2018~Jun. 01, 2018	Mar. 19, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	30M-18G	Mar. 15, 2018	May 16, 2018~Jun. 01, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2589/2	30M-18G	Mar. 15, 2018	May 16, 2018~Jun. 01, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 18, 2017	May 16, 2018~Jun. 01, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1G Low Pass	Sep. 18, 2017	May 16, 2018~Jun. 01, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Test Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	May 16, 2018~Jun. 01, 2018	N/A	Radiation (03CH11-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	2.7
--	------------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.2
--	------------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.5
--	------------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.2
--	------------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiang Wang/Derek Hsu/Shiming Liu	Temperature:	21~25	°C
Test Date:	2018/5/12-2018/6/01	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	Note
					Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	36	5180	17.60	23.80	-	22.46	
11a	6Mbps	1	44	5220	17.50	25.30	-	22.43	
11a	6Mbps	1	48	5240	17.55	24.30	-	22.44	
HT20	MCS0	1	36	5180	18.70	25.70	-	22.72	
HT20	MCS0	1	44	5220	18.75	25.60	-	22.73	
HT20	MCS0	1	48	5240	18.60	25.60	-	22.70	
HT40	MCS0	1	38	5190	36.70	42.12	-	23.01	
HT40	MCS0	1	46	5230	36.60	42.12	-	23.01	
VHT80	MCS0	1	42	5210	76.08	86.16	-	23.01	

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
Ant 1	Ant 1	Ant 1	Ant 1							
11a	6Mbps	1	36	5180	0.26	9.41	24.00	-0.90		Pass
11a	6Mbps	1	44	5220	0.26	9.38	24.00	-0.90		Pass
11a	6Mbps	1	48	5240	0.26	9.37	24.00	-0.90		Pass
HT20	MCS0	1	36	5180	0.25	8.45	24.00	-0.90		Pass
HT20	MCS0	1	44	5220	0.25	8.35	24.00	-0.90		Pass
HT20	MCS0	1	48	5240	0.25	8.30	24.00	-0.90		Pass
HT40	MCS0	1	38	5190	0.43	8.28	24.00	-0.90		Pass
HT40	MCS0	1	46	5230	0.43	8.24	24.00	-0.90		Pass
VHT20	MCS0	1	36	5180	0.24	6.48	24.00	-0.90		Pass
VHT20	MCS0	1	44	5220	0.24	6.34	24.00	-0.90		Pass
VHT20	MCS0	1	48	5240	0.24	6.32	24.00	-0.90		Pass
VHT40	MCS0	1	38	5190	0.47	6.42	24.00	-0.90		Pass
VHT40	MCS0	1	46	5230	0.47	6.32	24.00	-0.90		Pass
VHT80	MCS0	1	42	5210	0.50	6.10	24.00	-0.90		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 1			
11a	6Mbps	1	36	5180	0.26	-3.15	11.00	-0.90		Pass
11a	6Mbps	1	44	5220	0.26	-3.79	11.00	-0.90		Pass
11a	6Mbps	1	48	5240	0.26	-3.92	11.00	-0.90		Pass
HT20	MCS0	1	36	5180	0.25	-4.89	11.00	-0.90		Pass
HT20	MCS0	1	44	5220	0.25	-5.28	11.00	-0.90		Pass
HT20	MCS0	1	48	5240	0.25	-5.61	11.00	-0.90		Pass
HT40	MCS0	1	38	5190	0.43	-8.13	11.00	-0.90		Pass
HT40	MCS0	1	46	5230	0.43	-8.37	11.00	-0.90		Pass
VHT80	MCS0	1	42	5210	0.50	-13.80	11.00	-0.90		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	17.55	24.10	23.44	29.44	23.98	
11a	6Mbps	1	60	5300	17.60	24.10	23.46	29.46	23.98	
11a	6Mbps	1	64	5320	17.60	24.60	23.46	29.46	23.98	
HT20	MCS0	1	52	5260	18.60	26.05	23.70	29.70	23.98	
HT20	MCS0	1	60	5300	18.75	26.70	23.73	29.73	23.98	
HT20	MCS0	1	64	5320	18.70	26.65	23.72	29.72	23.98	
HT40	MCS0	1	54	5270	36.70	41.94	23.98	30.00	23.98	
HT40	MCS0	1	62	5310	36.60	42.12	23.98	30.00	23.98	
VHT80	MCS0	1	58	5290	75.96	85.44	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	0.26	9.36	23.98	-0.72	26.99	Pass
11a	6Mbps	1	60	5300	0.26	9.26	23.98	-0.72	26.99	Pass
11a	6Mbps	1	64	5320	0.26	9.46	23.98	-0.72	26.99	Pass
HT20	MCS0	1	52	5260	0.25	8.15	23.98	-0.72	26.99	Pass
HT20	MCS0	1	60	5300	0.25	8.30	23.98	-0.72	26.99	Pass
HT20	MCS0	1	64	5320	0.25	8.45	23.98	-0.72	26.99	Pass
HT40	MCS0	1	54	5270	0.43	8.48	23.98	-0.72	26.99	Pass
HT40	MCS0	1	62	5310	0.43	8.13	23.98	-0.72	26.99	Pass
VHT20	MCS0	1	52	5260	0.24	6.49	23.98	-0.72	26.99	Pass
VHT20	MCS0	1	60	5300	0.24	6.20	23.98	-0.72	26.99	Pass
VHT20	MCS0	1	64	5320	0.24	6.13	23.98	-0.72	26.99	Pass
VHT40	MCS0	1	54	5270	0.47	6.27	23.98	-0.72	26.99	Pass
VHT40	MCS0	1	62	5310	0.47	6.37	23.98	-0.72	26.99	Pass
VHT80	MCS0	1	58	5290	0.50	6.15	23.98	-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 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	0.26	-4.69	11.00	-0.72	
11a	6Mbps	1	60	5300	0.26	-4.48	11.00	-0.72	Pass
11a	6Mbps	1	64	5320	0.26	-4.67	11.00	-0.72	Pass
HT20	MCS0	1	52	5260	0.25	-6.31	11.00	-0.72	Pass
HT20	MCS0	1	60	5300	0.25	-5.55	11.00	-0.72	Pass
HT20	MCS0	1	64	5320	0.25	-5.69	11.00	-0.72	Pass
HT40	MCS0	1	54	5270	0.43	-8.96	11.00	-0.72	Pass
HT40	MCS0	1	62	5310	0.43	-9.24	11.00	-0.72	Pass
VHT80	MCS0	1	58	5290	0.50	-14.15	11.00	-0.72	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	Ant 1
11a	6Mbps	1	100	5500	17.55	24.70	23.44	29.44	23.98	----
11a	6Mbps	1	116	5580	17.55	24.30	23.44	29.44	23.98	----
11a	6Mbps	1	140	5700	17.60	24.60	23.46	29.46	23.98	----
11a	6Mbps	1	144	5720	13.85	16.85	22.41	28.41	23.27	2.75
HT20	MCS0	1	100	5500	18.70	26.60	23.72	29.72	23.98	----
HT20	MCS0	1	116	5580	18.70	25.60	23.72	29.72	23.98	----
HT20	MCS0	1	140	5700	18.70	26.60	23.72	29.72	23.98	----
HT20	MCS0	1	144	5720	14.40	17.35	22.58	28.58	23.39	2.6
HT40	MCS0	1	102	5510	36.60	41.94	23.98	30.00	23.98	----
HT40	MCS0	1	110	5550	36.60	41.88	23.98	30.00	23.98	----
HT40	MCS0	1	134	5670	36.70	42.25	23.98	30.00	23.98	----
HT40	MCS0	1	142	5710	33.30	35.79	23.98	30.00	23.98	3.18
VHT80	MCS0	1	106	5530	76.08	84.52	23.98	30.00	23.98	----
VHT80	MCS0	1	122	5610	75.96	84.80	23.98	30.00	23.98	----
VHT80	MCS0	1	138	5690	73.04	78.04	23.98	30.00	23.98	2.6

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	100	5500	0.26	11.98	23.98	-0.73	26.99	Pass
11a	6Mbps	1	116	5580	0.26	11.97	23.98	-0.73	26.99	Pass
11a	6Mbps	1	140	5700	0.26	11.93	23.98	-0.73	26.99	Pass
11a	6Mbps	1	144	5720	0.26	11.76	23.27	-0.73	26.99	Pass
HT20	MCS0	1	100	5500	0.25	10.77	23.98	-0.73	26.99	Pass
HT20	MCS0	1	116	5580	0.25	10.76	23.98	-0.73	26.99	Pass
HT20	MCS0	1	140	5700	0.25	10.70	23.98	-0.73	26.99	Pass
HT20	MCS0	1	144	5720	0.25	10.61	23.39	-0.73	26.99	Pass
HT40	MCS0	1	102	5510	0.43	10.74	23.98	-0.73	26.99	Pass
HT40	MCS0	1	110	5550	0.43	10.73	23.98	-0.73	26.99	Pass
HT40	MCS0	1	134	5670	0.43	10.59	23.98	-0.73	26.99	Pass
HT40	MCS0	1	142	5710	0.43	10.55	23.98	-0.73	26.99	Pass
VHT20	MCS0	1	100	5500	0.24	8.99	23.98	-0.73	26.99	Pass
VHT20	MCS0	1	116	5580	0.24	8.96	23.98	-0.73	26.99	Pass
VHT20	MCS0	1	140	5700	0.24	8.89	23.98	-0.73	26.99	Pass
VHT20	MCS0	1	144	5720	0.24	8.86	23.98	-0.73	26.99	Pass
VHT40	MCS0	1	102	5510	0.47	8.97	23.98	-0.73	26.99	Pass
VHT40	MCS0	1	110	5550	0.47	8.92	23.98	-0.73	26.99	Pass
VHT40	MCS0	1	134	5670	0.47	8.90	23.98	-0.73	26.99	Pass
VHT40	MCS0	1	142	5710	0.47	8.80	23.98	-0.73	26.99	Pass
VHT80	MCS0	1	106	5530	0.50	8.98	23.98	-0.73	26.99	Pass
VHT80	MCS0	1	122	5610	0.50	8.70	23.98	-0.73	26.99	Pass
VHT80	MCS0	1	138	5690	0.50	8.69	23.98	-0.73	26.99	Pass

Note: The above Frequency and Channel in "*" were straddle channel.

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 1			
11a	6Mbps	1	100	5500	0.26	-1.46	11.00	-0.73		Pass
11a	6Mbps	1	116	5580	0.26	-1.59	11.00	-0.73		Pass
11a	6Mbps	1	140	5700	0.26	-2.61	11.00	-0.73		Pass
11a	6Mbps	1	144	5720	0.26	-2.82	11.00	-0.73		Pass
HT20	MCS0	1	100	5500	0.25	-3.06	11.00	-0.73		Pass
HT20	MCS0	1	116	5580	0.25	-3.09	11.00	-0.73		Pass
HT20	MCS0	1	140	5700	0.25	-3.93	11.00	-0.73		Pass
HT20	MCS0	1	144	5720	0.25	-4.16	11.00	-0.73		Pass
HT40	MCS0	1	102	5510	0.43	-6.03	11.00	-0.73		Pass
HT40	MCS0	1	110	5550	0.43	-6.04	11.00	-0.73		Pass
HT40	MCS0	1	134	5670	0.43	-7.06	11.00	-0.73		Pass
HT40	MCS0	1	142	5710	0.43	-7.20	11.00	-0.73		Pass
VHT80	MCS0	1	106	5530	0.50	-10.59	11.00	-0.73		Pass
VHT80	MCS0	1	122	5610	0.50	-11.31	11.00	-0.73		Pass
VHT80	MCS0	1	138	5690	0.50	-12.04	11.00	-0.73		Pass



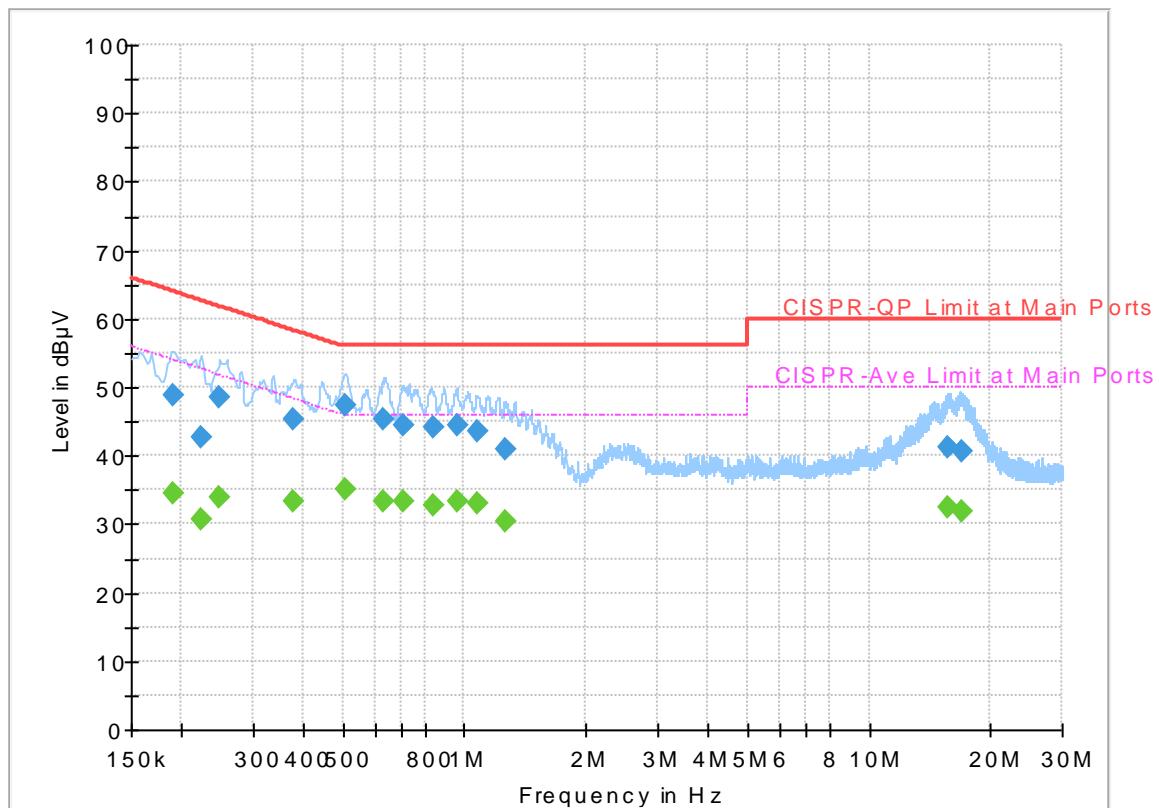
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	22~25°C
		Relative Humidity :	51~55%

EUT Information

Report NO : 850432
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

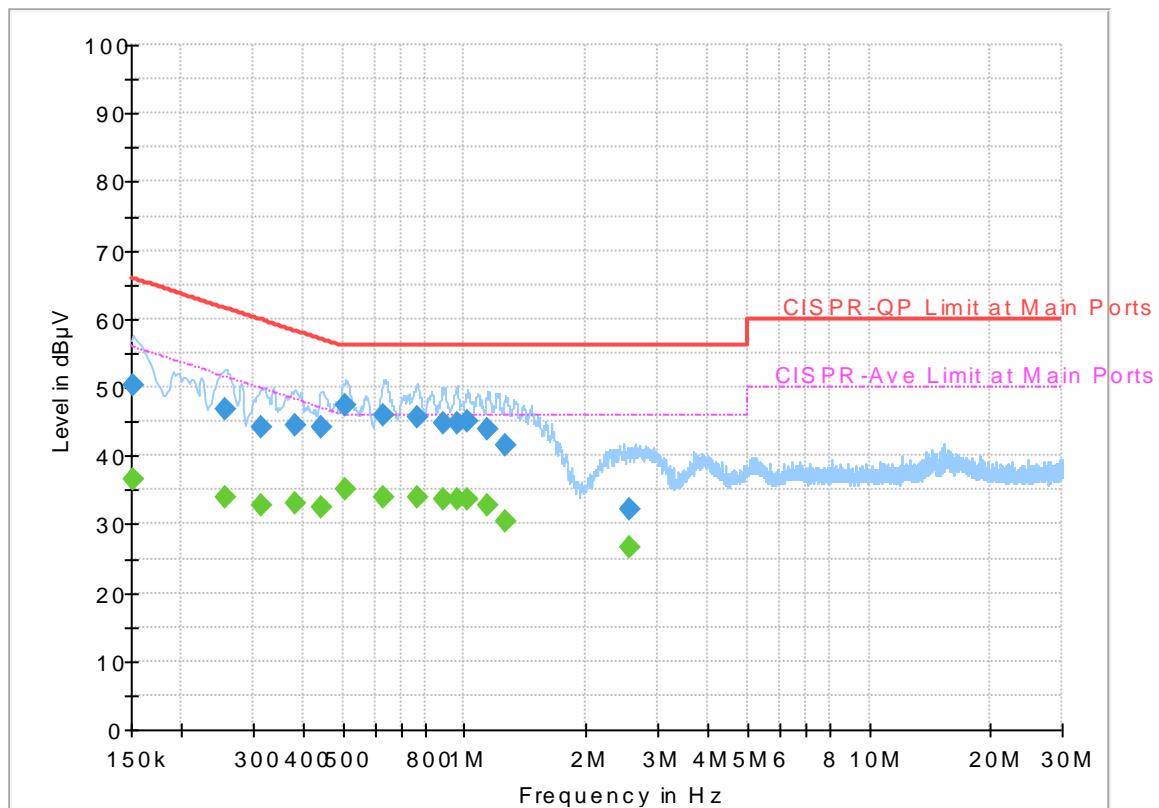
Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.190500	---	34.60	54.02	19.42	L1	OFF	19.5
0.190500	48.92	---	64.02	15.1	L1	OFF	19.5
0.224250	---	30.69	52.66	21.97	L1	OFF	19.5
0.224250	42.63	---	62.66	20.03	L1	OFF	19.5
0.249000	---	33.94	51.79	17.85	L1	OFF	19.5
0.249000	48.44	---	61.79	13.35	L1	OFF	19.5
0.379500	---	33.38	48.29	14.91	L1	OFF	19.5
0.379500	45.45	---	58.29	12.84	L1	OFF	19.5
0.507750	---	35.15	46.00	10.85	L1	OFF	19.5
0.507750	47.44	---	56.00	8.56	L1	OFF	19.5
0.627000	---	33.23	46.00	12.77	L1	OFF	19.6
0.627000	45.25	---	56.00	10.75	L1	OFF	19.6
0.708000	---	33.35	46.00	12.65	L1	OFF	19.6
0.708000	44.50	---	56.00	11.50	L1	OFF	19.6
0.834000	---	32.63	46.00	13.37	L1	OFF	19.6
0.834000	44.26	---	56.00	11.74	L1	OFF	19.6
0.955500	---	33.29	46.00	12.71	L1	OFF	19.6
0.955500	44.57	---	56.00	11.43	L1	OFF	19.6
1.077000	---	32.91	46.00	13.09	L1	OFF	19.6
1.077000	43.53	---	56.00	12.47	L1	OFF	19.6
1.259250	---	30.33	46.00	15.67	L1	OFF	19.6

1.259250	40.91	---	56.00	15.09	L1	OFF	19.6
15.681750	---	32.58	50.00	17.42	L1	OFF	20.1
15.681750	41.12	---	60.00	18.88	L1	OFF	20.1
17.020500	---	31.87	50.00	18.13	L1	OFF	20.2
17.020500	40.77	---	60.00	19.23	L1	OFF	20.2

EUT Information

Report NO : 850432
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	36.43	55.88	19.45	N	OFF	19.5
0.152250	50.41	---	65.88	15.47	N	OFF	19.5
0.255750	---	33.93	51.57	17.64	N	OFF	19.5
0.255750	46.88	---	61.57	14.69	N	OFF	19.5
0.314250	---	32.85	49.86	17.01	N	OFF	19.5
0.314250	44.20	---	59.86	15.66	N	OFF	19.5
0.384000	---	33.05	48.19	15.14	N	OFF	19.5
0.384000	44.48	---	58.19	13.71	N	OFF	19.5
0.444750	---	32.57	46.97	14.40	N	OFF	19.5
0.444750	44.14	---	56.97	12.83	N	OFF	19.5
0.510000	---	35.19	46.00	10.81	N	OFF	19.5
0.510000	47.35	---	56.00	8.65	N	OFF	19.5
0.633750	---	33.83	46.00	12.17	N	OFF	19.6
0.633750	45.88	---	56.00	10.12	N	OFF	19.6
0.762000	---	34.02	46.00	11.98	N	OFF	19.6
0.762000	45.49	---	56.00	10.51	N	OFF	19.6
0.890250	---	33.74	46.00	12.26	N	OFF	19.6
0.890250	44.82	---	56.00	11.18	N	OFF	19.6
0.955500	---	33.57	46.00	12.43	N	OFF	19.6
0.955500	44.63	---	56.00	11.37	N	OFF	19.6
1.020750	---	33.69	46.00	12.31	N	OFF	19.6

1.020750	45.13	---	56.00	10.87	N	OFF	19.6
1.142250	---	32.76	46.00	13.24	N	OFF	19.6
1.142250	43.94	---	56.00	12.06	N	OFF	19.6
1.261500	---	30.53	46.00	15.47	N	OFF	19.6
1.261500	41.58	---	56.00	14.42	N	OFF	19.6
2.546250	---	26.57	46.00	19.43	N	OFF	19.6
2.546250	32.29	---	56.00	23.71	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	Temperature :		21~24°C	
		Relative Humidity :		51~57%	

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	Pos	Pos	Avg.
1		5138.32	53.56	-20.44	74	45.81	31.73	9.05	33.03	100	116	P	H
802.11a CH 36 5180MHz		5146.64	46.68	-7.32	54	38.91	31.75	9.05	33.03	100	116	A	H
	*	5180	108.45	-	-	100.63	31.78	9.07	33.03	100	116	P	H
	*	5180	100.99	-	-	93.17	31.78	9.07	33.03	100	116	A	H
													H
													H
		5144.56	51.64	-22.36	74	43.87	31.75	9.05	33.03	295	334	P	V
		5141.44	42.93	-11.07	54	35.16	31.75	9.05	33.03	295	334	A	V
	*	5180	103.83	-	-	96.01	31.78	9.07	33.03	295	334	P	V
	*	5180	96.41	-	-	88.59	31.78	9.07	33.03	295	334	A	V
													V
802.11a CH 44 5220MHz		5149.5	52	-22	74	44.23	31.75	9.05	33.03	100	110	P	H
		5150	43.02	-10.98	54	35.25	31.75	9.05	33.03	100	110	A	H
	*	5220	107.5	-	-	99.6	31.82	9.11	33.03	100	110	P	H
	*	5220	100.02	-	-	92.12	31.82	9.11	33.03	100	110	A	H
		5419.25	50.63	-23.37	74	42.37	32.02	9.26	33.02	100	110	P	H
		5443.25	39.52	-14.48	54	31.25	32.03	9.26	33.02	100	110	A	H
		5148.46	49.32	-24.68	74	41.55	31.75	9.05	33.03	302	331	P	V
		5149.5	41.1	-12.9	54	33.33	31.75	9.05	33.03	302	331	A	V
	*	5220	103.11	-	-	95.21	31.82	9.11	33.03	302	331	P	V
	*	5220	95.81	-	-	87.91	31.82	9.11	33.03	302	331	A	V
		5450	50.84	-23.16	74	42.52	32.05	9.29	33.02	302	331	P	V
		5453.5	39.4	-14.6	54	31.08	32.05	9.29	33.02	302	331	A	V



802.11a CH 48 5240MHz		5001.56	50.31	-23.69	74	42.82	31.6	8.93	33.04	100	116	P	H
		5148.98	41.58	-12.42	54	33.81	31.75	9.05	33.03	100	116	A	H
	*	5240	107.14	-	-	99.22	31.83	9.12	33.03	100	116	P	H
	*	5240	99.84	-	-	91.92	31.83	9.12	33.03	100	116	A	H
		5352	48.47	-25.53	74	40.36	31.95	9.19	33.03	100	116	P	H
		5459.75	39.65	-14.35	54	31.33	32.05	9.29	33.02	100	116	A	H
		5103.74	49.24	-24.76	74	41.57	31.7	9.01	33.04	304	329	P	V
		5092.04	40.43	-13.57	54	32.76	31.7	9.01	33.04	304	329	A	V
	*	5240	101.99	-	-	94.07	31.83	9.12	33.03	304	329	P	V
	*	5240	94.4	-	-	86.48	31.83	9.12	33.03	304	329	A	V
		5457.5	48.45	-25.55	74	40.13	32.05	9.29	33.02	304	329	P	V
		5457.5	39.54	-14.46	54	31.22	32.05	9.29	33.02	304	329	A	V
Remark	No other spurious found. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	44.76	-29.24	74	50.32	39.51	14.94	60.01	100	0	P	H
		15540	42.84	-31.16	74	44.55	38	18.34	58.05	100	0	P	H
													H
													H
		10360	45.05	-28.95	74	50.61	39.51	14.94	60.01	100	0	P	V
		15540	43	-31	74	44.71	38	18.34	58.05	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	44.95	-29.05	74	50.5	39.61	14.99	60.15	100	0	P	H
		15660	43.76	-30.24	74	45.56	37.67	18.41	57.88	100	0	P	H
													H
													H
		10440	45.34	-28.66	74	50.89	39.61	14.99	60.15	100	0	P	V
		15660	43.02	-30.98	74	44.82	37.67	18.41	57.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	46.49	-27.51	74	52.04	39.68	15.03	60.26	100	0	P	H
		15720	42.9	-31.1	74	44.79	37.47	18.43	57.79	100	0	P	H
													H
													H
		10480	45.44	-28.56	74	50.99	39.68	15.03	60.26	100	0	P	V
		15720	43.32	-30.68	74	45.21	37.47	18.43	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5114.14	54.11	-19.89	74	46.4	31.72	9.03	33.04	100	113	P	H
		5139.62	44.43	-9.57	54	36.66	31.75	9.05	33.03	100	113	A	H
	*	5180	106.88	-	-	99.06	31.78	9.07	33.03	100	113	P	H
	*	5180	99.15	-	-	91.33	31.78	9.07	33.03	100	113	A	H
													H
													H
		5141.44	49.72	-24.28	74	41.95	31.75	9.05	33.03	309	336	P	V
		5138.84	41.67	-12.33	54	33.92	31.73	9.05	33.03	309	336	A	V
	*	5180	101.94	-	-	94.12	31.78	9.07	33.03	309	336	P	V
	*	5180	94.57	-	-	86.75	31.78	9.07	33.03	309	336	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5118.3	52.4	-21.6	74	44.68	31.72	9.03	33.03	102	115	P	H
		5150	43.43	-10.57	54	35.66	31.75	9.05	33.03	102	115	A	H
	*	5220	105.82	-	-	97.92	31.82	9.11	33.03	102	115	P	H
	*	5220	98.17	-	-	90.27	31.82	9.11	33.03	102	115	A	H
		5440	47.64	-26.36	74	39.37	32.03	9.26	33.02	102	115	P	H
		5458.75	39.48	-14.52	54	31.16	32.05	9.29	33.02	102	115	A	H
		5036.14	48.66	-25.34	74	41.1	31.63	8.97	33.04	303	331	P	V
		5148.2	41.05	-12.95	54	33.28	31.75	9.05	33.03	303	331	A	V
	*	5220	101.09	-	-	93.19	31.82	9.11	33.03	303	331	P	V
	*	5220	93.54	-	-	85.64	31.82	9.11	33.03	303	331	A	V
		5414.5	47.98	-26.02	74	39.76	32.02	9.22	33.02	303	331	P	V
		5458.75	39.48	-14.52	54	31.16	32.05	9.29	33.02	303	331	A	V



802.11n HT20 CH 48 5240MHz		5138.84	49.55	-24.45	74	41.8	31.73	9.05	33.03	108	115	P	H
		5148.72	41.55	-12.45	54	33.78	31.75	9.05	33.03	108	115	A	H
	*	5240	105.28	-	-	97.36	31.83	9.12	33.03	108	115	P	H
	*	5240	97.71	-	-	89.79	31.83	9.12	33.03	108	115	A	H
		5424.75	48.41	-25.59	74	40.15	32.02	9.26	33.02	108	115	P	H
		5452.5	39.39	-14.61	54	31.07	32.05	9.29	33.02	108	115	A	H
		5003.9	48.85	-25.15	74	41.32	31.62	8.95	33.04	323	336	P	V
		5139.36	40.54	-13.46	54	32.79	31.73	9.05	33.03	323	336	A	V
	*	5240	101.04	-	-	93.12	31.83	9.12	33.03	323	336	P	V
	*	5240	93.29	-	-	85.37	31.83	9.12	33.03	323	336	A	V
		5440.5	47.85	-26.15	74	39.58	32.03	9.26	33.02	323	336	P	V
		5448.75	39.64	-14.36	54	31.32	32.05	9.29	33.02	323	336	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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10360	45.17	-28.83	74	50.73	39.51	14.94	60.01	100	0	P	H
		15540	42.43	-31.57	74	44.14	38	18.34	58.05	100	0	P	H
													H
													H
		10360	45.74	-28.26	74	51.3	39.51	14.94	60.01	100	0	P	V
		15540	42.58	-31.42	74	44.29	38	18.34	58.05	100	0	P	V
													V
802.11n HT20 CH 44 5220MHz		10440	45.14	-28.86	74	50.69	39.61	14.99	60.15	100	0	P	H
		15660	44.18	-29.82	74	45.98	37.67	18.41	57.88	100	0	P	H
													H
													H
		10440	45.71	-28.29	74	51.26	39.61	14.99	60.15	100	0	P	V
		15660	43.21	-30.79	74	45.01	37.67	18.41	57.88	100	0	P	V
													V
802.11n HT20 CH 48 5240MHz		10480	45.59	-28.41	74	51.14	39.68	15.03	60.26	100	0	P	H
		15720	43.15	-30.85	74	45.04	37.47	18.43	57.79	100	0	P	H
													H
													H
		10480	45.41	-28.59	74	50.96	39.68	15.03	60.26	100	0	P	V
		15720	42.53	-31.47	74	44.42	37.47	18.43	57.79	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 μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5126.1	57.22	-16.78	74	49.49	31.73	9.03	33.03	100	115	P	H
		5150	48.91	-5.09	54	41.14	31.75	9.05	33.03	100	115	A	H
	*	5190	104.34	-	-	96.5	31.78	9.09	33.03	100	115	P	H
	*	5190	95.87	-	-	88.03	31.78	9.09	33.03	100	115	A	H
		5403.72	47.97	-26.03	74	39.77	32	9.22	33.02	100	115	P	H
		5451.04	40.08	-13.92	54	31.76	32.05	9.29	33.02	100	115	A	H
		5141.7	53.71	-20.29	74	45.94	31.75	9.05	33.03	368	335	P	V
		5150.02	45.08	-104.92	150	37.31	31.75	9.05	33.03	368	335	A	V
	*	5190	100.04	-	-	92.2	31.78	9.09	33.03	368	335	P	V
	*	5190	91.64	-	-	83.8	31.78	9.09	33.03	368	335	A	V
802.11n HT40 CH 46 5230MHz		5435.36	47.48	-26.52	74	39.21	32.03	9.26	33.02	368	335	P	V
		5426.12	40.15	-13.85	54	31.89	32.02	9.26	33.02	368	335	A	V
		5133.64	53.86	-20.14	74	46.11	31.73	9.05	33.03	100	114	P	H
		5149.5	45.4	-8.6	54	37.63	31.75	9.05	33.03	100	114	A	H
	*	5230	103.15	-	-	95.24	31.83	9.11	33.03	100	114	P	H
	*	5230	94.51	-	-	86.6	31.83	9.11	33.03	100	114	A	H
		5358.36	48.18	-25.82	74	40.07	31.95	9.19	33.03	100	114	P	H
		5456.92	40.53	-13.47	54	32.21	32.05	9.29	33.02	100	114	A	H
		5143.26	51.3	-22.7	74	43.53	31.75	9.05	33.03	379	333	P	V
		5143.52	42.58	-11.42	54	34.81	31.75	9.05	33.03	379	333	A	V
Remark	*	5230	98.99	-	-	91.08	31.83	9.11	33.03	379	333	P	V
	*	5230	90.41	-	-	82.5	31.83	9.11	33.03	379	333	A	V
		5377.68	48.12	-25.88	74	39.96	31.98	9.2	33.02	379	333	P	V
		5453.84	40.02	-13.98	54	31.7	32.05	9.29	33.02	379	333	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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10380	45.75	-28.25	74	51.3	39.54	14.95	60.04	100	0	P	H
		15570	43.36	-30.64	74	45.09	37.91	18.36	58	100	0	P	H
													H
													H
		10380	44.22	-29.78	74	49.77	39.54	14.95	60.04	100	0	P	V
		15570	43.23	-30.77	74	44.96	37.91	18.36	58	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	45.26	-28.74	74	50.82	39.63	15	60.19	100	0	P	H
		15690	43.3	-30.7	74	45.15	37.57	18.41	57.83	100	0	P	H
													H
													H
		10460	45.33	-28.67	74	50.89	39.63	15	60.19	100	0	P	V
		15690	43.17	-30.83	74	45.02	37.57	18.41	57.83	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5150	54.35	-19.65	74	46.58	31.75	9.05	33.03	100	114	P	H
		5134.94	45.63	-8.37	54	37.88	31.73	9.05	33.03	100	114	A	H
	*	5210	98.43	-	-	90.55	31.82	9.09	33.03	100	114	P	H
	*	5210	90.13	-	-	82.25	31.82	9.09	33.03	100	114	A	H
		5458.6	47.72	-26.28	74	39.4	32.05	9.29	33.02	100	114	P	H
		5447.68	40.45	-13.55	54	32.13	32.05	9.29	33.02	100	114	A	H
		5149.24	49.49	-24.51	74	41.72	31.75	9.05	33.03	364	336	P	V
		5137.8	42.35	-11.65	54	34.6	31.73	9.05	33.03	364	336	A	V
	*	5210	94.48	-	-	86.6	31.82	9.09	33.03	364	336	P	V
	*	5210	85.58	-	-	77.7	31.82	9.09	33.03	364	336	A	V
		5369	47.57	-26.43	74	39.43	31.97	9.2	33.03	364	336	P	V
		5449.08	40.03	-13.97	54	31.71	32.05	9.29	33.02	364	336	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10420	45.32	-28.68	74	50.88	39.58	14.98	60.12	100	0	P	H
		15630	42.85	-31.15	74	44.66	37.71	18.39	57.91	100	0	P	H
													H
													H
		10420	45.73	-28.27	74	51.29	39.58	14.98	60.12	100	0	P	V
		15630	42.87	-31.13	74	44.68	37.71	18.39	57.91	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5083.98	49.44	-24.56	74	41.79	31.68	9.01	33.04	100	114	P	H
		5138.04	41	-13	54	33.25	31.73	9.05	33.03	100	114	A	H
	*	5260	103.67	-	-	95.71	31.87	9.12	33.03	100	114	P	H
	*	5260	99.14	-	-	91.18	31.87	9.12	33.03	100	114	A	H
		5425.2	47.74	-26.26	74	39.48	32.02	9.26	33.02	100	114	P	H
		5351.04	39.53	-14.47	54	31.42	31.95	9.19	33.03	100	114	A	H
		5058.48	49.96	-24.04	74	42.34	31.67	8.99	33.04	301	333	P	V
		5060.52	40.44	-13.56	54	32.82	31.67	8.99	33.04	301	333	A	V
	*	5260	102.19	-	-	94.23	31.87	9.12	33.03	301	333	P	V
	*	5260	94.54	-	-	86.58	31.87	9.12	33.03	301	333	A	V
802.11a CH 60 5300MHz		5422.56	48.16	-25.84	74	39.9	32.02	9.26	33.02	301	333	P	V
		5459.28	39.55	-14.45	54	31.23	32.05	9.29	33.02	301	333	A	V
		5037.06	50.31	-23.69	74	42.75	31.63	8.97	33.04	100	112	P	H
		5104.72	40.69	-13.31	54	33.02	31.7	9.01	33.04	100	112	A	H
	*	5300	105.27	-	-	97.24	31.9	9.16	33.03	100	112	P	H
	*	5300	97.71	-	-	89.68	31.9	9.16	33.03	100	112	A	H
		5355.6	49.1	-24.9	74	40.99	31.95	9.19	33.03	100	112	P	H
		5350.56	41.41	-12.59	54	33.3	31.95	9.19	33.03	100	112	A	H
		5112.88	49.29	-24.71	74	41.58	31.72	9.03	33.04	313	335	P	V
		5060.52	40.44	-13.56	54	32.82	31.67	8.99	33.04	313	335	A	V



	*	5320	105.51	-	-	97.45	31.92	9.17	33.03	103	113	P	H
802.11a CH 64 5320MHz	*	5320	97.92	-	-	89.86	31.92	9.17	33.03	103	113	A	H
		5351.68	51.04	-22.96	74	42.93	31.95	9.19	33.03	103	113	P	H
		5350.08	42.61	-11.39	54	34.5	31.95	9.19	33.03	103	113	A	H
													H
													H
	*	5320	100.35	-	-	92.29	31.92	9.17	33.03	312	331	P	V
	*	5320	92.93	-	-	84.87	31.92	9.17	33.03	312	331	A	V
		5373.28	48.43	-25.57	74	40.28	31.97	9.2	33.02	312	331	P	V
		5354.72	40.36	-13.64	54	32.25	31.95	9.19	33.03	312	331	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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	46.09	-27.91	74	51.67	39.71	15.05	60.34	100	0	P	H
		15780	43.25	-30.75	74	45.17	37.33	18.46	57.71	100	0	P	H
													H
													H
		10520	45.18	-28.82	74	50.76	39.71	15.05	60.34	100	0	P	V
		15780	43.77	-30.23	74	45.69	37.33	18.46	57.71	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	44.41	-29.59	74	50.07	39.78	15.11	60.55	100	0	P	H
		15900	42.64	-31.36	74	44.66	36.99	18.53	57.54	100	0	P	H
													H
													H
		10600	44.58	-29.42	74	50.24	39.78	15.11	60.55	100	0	P	V
		15900	42.26	-31.74	74	44.28	36.99	18.53	57.54	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	44.04	-29.96	74	49.74	39.81	15.12	60.63	100	0	P	H
		15960	42.76	-31.24	74	44.85	36.8	18.56	57.45	100	0	P	H
													H
													H
		10640	45.11	-28.89	74	50.81	39.81	15.12	60.63	100	0	P	V
		15960	43.16	-30.84	74	45.25	36.8	18.56	57.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5016.32	50.22	-23.78	74	42.69	31.62	8.95	33.04	100	115	P	H
		5149.6	40.96	-13.04	54	33.19	31.75	9.05	33.03	100	115	A	H
	*	5260	104.72	-	-	96.76	31.87	9.12	33.03	100	115	P	H
	*	5260	97.05	-	-	89.09	31.87	9.12	33.03	100	115	A	H
		5424.24	47.99	-26.01	74	39.73	32.02	9.26	33.02	100	115	P	H
		5350.8	39.54	-14.46	54	31.43	31.95	9.19	33.03	100	115	A	H
		5149.94	49.29	-24.71	74	41.52	31.75	9.05	33.03	302	333	P	V
		5099.62	40.51	-13.49	54	32.84	31.7	9.01	33.04	302	333	A	V
	*	5260	100.62	-	-	92.66	31.87	9.12	33.03	302	333	P	V
	*	5260	93.11	-	-	85.15	31.87	9.12	33.03	302	333	A	V
802.11n HT20 CH 60 5300MHz		5415.36	48.82	-25.18	74	40.6	32.02	9.22	33.02	302	333	P	V
		5454	39.42	-14.58	54	31.1	32.05	9.29	33.02	302	333	A	V
		5099.62	49.3	-24.7	74	41.63	31.7	9.01	33.04	101	108	P	H
		5079.9	40.48	-13.52	54	32.85	31.68	8.99	33.04	101	108	A	H
	*	5300	102.92	-	-	94.89	31.9	9.16	33.03	101	108	P	H
	*	5300	95.29	-	-	87.26	31.9	9.16	33.03	101	108	A	H
		5354.16	50.24	-23.76	74	42.13	31.95	9.19	33.03	101	108	P	H
		5352.72	40.47	-13.53	54	32.36	31.95	9.19	33.03	101	108	A	H
		5075.14	49	-25	74	41.37	31.68	8.99	33.04	315	331	P	V
		5100.98	40.39	-13.61	54	32.72	31.7	9.01	33.04	315	331	A	V
	*	5300	99.43	-	-	91.4	31.9	9.16	33.03	315	331	P	V
	*	5300	91.22	-	-	83.19	31.9	9.16	33.03	315	331	A	V
		5354.4	48.94	-25.06	74	40.83	31.95	9.19	33.03	315	331	P	V
		5454.48	39.5	-14.5	54	31.18	32.05	9.29	33.02	315	331	A	V



	*	5320	103.27	-	-	95.21	31.92	9.17	33.03	103	113	P	H
	*	5320	95.67	-	-	87.61	31.92	9.17	33.03	103	113	A	H
		5369.92	50.57	-23.43	74	42.43	31.97	9.2	33.03	103	113	P	H
		5350.08	41.7	-12.3	54	33.59	31.95	9.19	33.03	103	113	A	H
802.11n													H
HT20													H
CH 64	*	5320	98.96	-	-	90.9	31.92	9.17	33.03	315	336	P	V
5320MHz	*	5320	91.13	-	-	83.07	31.92	9.17	33.03	315	336	A	V
		5426.56	48.78	-25.22	74	40.52	32.02	9.26	33.02	315	336	P	V
		5350.08	39.87	-14.13	54	31.76	31.95	9.19	33.03	315	336	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10520	45.69	-28.31	74	51.27	39.71	15.05	60.34	100	0	P	H
		15780	43.17	-30.83	74	45.09	37.33	18.46	57.71	100	0	P	H
													H
													H
		10520	45.37	-28.63	74	50.95	39.71	15.05	60.34	100	0	P	V
		15780	42.73	-31.27	74	44.65	37.33	18.46	57.71	100	0	P	V
													V
802.11n HT20 CH 60 5300MHz		10600	44.44	-29.56	74	50.1	39.78	15.11	60.55	100	0	P	H
		15900	41.97	-32.03	74	43.99	36.99	18.53	57.54	100	0	P	H
													H
													H
		10600	45.1	-28.9	74	50.76	39.78	15.11	60.55	100	0	P	V
		15900	42.28	-31.72	74	44.3	36.99	18.53	57.54	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	44.67	-29.33	74	50.37	39.81	15.12	60.63	100	0	P	H
		15960	43.52	-30.48	74	45.61	36.8	18.56	57.45	100	0	P	H
													H
													H
		10640	43.87	-30.13	74	49.57	39.81	15.12	60.63	100	0	P	V
		15960	43.46	-30.54	74	45.55	36.8	18.56	57.45	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 μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5090.1	49.92	-24.08	74	42.25	31.7	9.01	33.04	100	114	P	H
		5143.82	41.99	-12.01	54	34.22	31.75	9.05	33.03	100	114	A	H
	*	5270	101.65	-	-	93.67	31.87	9.14	33.03	100	114	P	H
	*	5270	93.19	-	-	85.21	31.87	9.14	33.03	100	114	A	H
		5364.48	48.98	-25.02	74	40.85	31.97	9.19	33.03	100	114	P	H
		5351.52	41.38	-12.62	54	33.27	31.95	9.19	33.03	100	114	A	H
		5041.14	49.6	-24.4	74	42.02	31.65	8.97	33.04	375	334	P	V
		5131.92	41.23	-12.77	54	33.5	31.73	9.03	33.03	375	334	A	V
	*	5270	98.28	-	-	90.3	31.87	9.14	33.03	375	334	P	V
	*	5270	89.68	-	-	81.7	31.87	9.14	33.03	375	334	A	V
802.11n HT40 CH 62 5310MHz		5448.48	48.14	-25.86	74	39.82	32.05	9.29	33.02	375	334	P	V
		5352	40.07	-13.93	54	31.96	31.95	9.19	33.03	375	334	A	V
		5048.62	48.69	-25.31	74	41.11	31.65	8.97	33.04	100	115	P	H
		5080.58	41.22	-12.78	54	33.59	31.68	8.99	33.04	100	115	A	H
	*	5310	100.58	-	-	92.53	31.92	9.16	33.03	100	115	P	H
	*	5310	92.09	-	-	84.04	31.92	9.16	33.03	100	115	A	H
		5359.44	53.32	-20.68	74	45.21	31.95	9.19	33.03	100	115	P	H
		5350.56	44.17	-9.83	54	36.06	31.95	9.19	33.03	100	115	A	H
		5015.98	48.95	-25.05	74	41.42	31.62	8.95	33.04	370	342	P	V
		5077.52	41.23	-12.77	54	33.6	31.68	8.99	33.04	370	342	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10540	44.93	-29.07	74	50.51	39.73	15.07	60.38	100	0	P	H
		15810	43.97	-30.03	74	45.92	37.23	18.49	57.67	100	0	P	H
													H
													H
		10540	45.3	-28.7	74	50.88	39.73	15.07	60.38	100	0	P	V
		15810	44.5	-29.5	74	46.45	37.23	18.49	57.67	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	45.28	-28.72	74	50.96	39.8	15.11	60.59	100	0	P	H
		15930	42.27	-31.73	74	44.33	36.89	18.55	57.5	100	0	P	H
													H
													H
		10620	44.66	-29.34	74	50.34	39.8	15.11	60.59	100	0	P	V
		15930	42.21	-31.79	74	44.27	36.89	18.55	57.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5048.28	49.71	-24.29	74	42.13	31.65	8.97	33.04	100	117	P	H
		5132.6	41.27	-12.73	54	33.54	31.73	9.03	33.03	100	117	A	H
	*	5290	96.04	-	-	88.03	31.88	9.16	33.03	100	117	P	H
	*	5290	87.41	-	-	79.4	31.88	9.16	33.03	100	117	A	H
		5359.44	50.5	-23.5	74	42.39	31.95	9.19	33.03	100	117	P	H
		5350.08	43.83	-10.17	54	35.72	31.95	9.19	33.03	100	117	A	H
		5058.14	49.25	-24.75	74	41.63	31.67	8.99	33.04	377	329	P	V
		5021.08	41.22	-12.78	54	33.68	31.63	8.95	33.04	377	329	A	V
	*	5290	92.06	-	-	84.05	31.88	9.16	33.03	377	329	P	V
	*	5290	83.34	-	-	75.33	31.88	9.16	33.03	377	329	A	V
		5374.32	48.93	-25.07	74	40.78	31.97	9.2	33.02	377	329	P	V
		5358.72	40.89	-13.11	54	32.78	31.95	9.19	33.03	377	329	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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		10580	44.62	-29.38	74	50.27	39.77	15.09	60.51	100	0	P	H
		15870	42.17	-31.83	74	44.19	37.04	18.51	57.57	100	0	P	H
													H
													H
		10580	44.78	-29.22	74	50.43	39.77	15.09	60.51	100	0	P	V
		15870	43.12	-30.88	74	45.14	37.04	18.51	57.57	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5469.52	50.29	-17.91	68.2	41.95	32.07	9.29	33.02	100	112	P	H
		5459.28	41.27	-12.73	54	32.95	32.05	9.29	33.02	100	112	P	H
	*	5500	103.45	-	-	95	32.1	9.37	33.02	100	112	P	H
	*	5500	95.76	-	-	87.31	32.1	9.37	33.02	100	112	A	H
													H
													H
		5462.96	49.91	-18.29	68.2	41.57	32.07	9.29	33.02	310	336	P	V
		5457.36	40.13	-13.87	54	31.81	32.05	9.29	33.02	310	336	P	V
	*	5500	98.47	-	-	90.02	32.1	9.37	33.02	310	336	P	V
	*	5500	91.1	-	-	82.65	32.1	9.37	33.02	310	336	A	V
802.11a CH 116 5580MHz		5463	47.96	-20.24	68.2	39.62	32.07	9.29	33.02	100	110	P	H
		5458	39.62	-14.38	54	31.3	32.05	9.29	33.02	100	110	P	H
	*	5580	104.63	-	-	96	32.22	9.48	33.07	100	110	P	H
	*	5580	97.27	-	-	88.64	32.22	9.48	33.07	100	110	A	H
		5741.795	49.81	-18.39	68.2	40.55	32.53	9.88	33.15	100	110	P	H
		5755.445	41.05	-12.95	54	31.75	32.57	9.88	33.15	100	110	A	H
		5469.75	47.42	-20.78	68.2	39.08	32.07	9.29	33.02	319	344	P	V
		5456	39.53	-14.47	54	31.21	32.05	9.29	33.02	319	344	P	V
	*	5580	101.04	-	-	92.41	32.22	9.48	33.07	319	344	P	V
	*	5580	93.47	-	-	84.84	32.22	9.48	33.07	319	344	A	V
		5726.78	48.63	-19.57	68.2	39.45	32.5	9.81	33.13	319	344	P	V
		5741.6	40.93	-13.07	54	31.67	32.53	9.88	33.15	319	344	A	V



802.11a CH 140 5700MHz	*	5700	108.86	-	-	99.79	32.44	9.75	33.12	103	121	P	H
	*	5700	101.25	-	-	92.18	32.44	9.75	33.12	103	121	A	H
		5725.72	64.03	-4.17	68.2	54.85	32.5	9.81	33.13	103	121	P	H
													H
													H
													H
	*	5700	101.79	-	-	92.72	32.44	9.75	33.12	343	340	P	V
	*	5700	94.35	-	-	85.28	32.44	9.75	33.12	343	340	A	V
		5725.4	56.88	-11.32	68.2	47.7	32.5	9.81	33.13	343	340	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	46.27	-27.73	74	52.29	40.1	15.38	61.5	100	0	P	H
		16500	44.12	-24.08	68.2	43.88	38.5	19.04	57.3	100	0	P	H
													H
													H
		11000	46.39	-27.61	74	52.41	40.1	15.38	61.5	100	0	P	V
		16500	45.78	-22.42	68.2	45.54	38.5	19.04	57.3	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.97	-28.03	74	51.94	40.07	15.49	61.53	100	0	P	H
		16740	45.97	-22.23	68.2	44.46	39.08	19.25	56.82	100	0	P	H
													H
													H
		11160	46.55	-27.45	74	52.52	40.07	15.49	61.53	100	0	P	V
		16740	45.16	-23.04	68.2	43.65	39.08	19.25	56.82	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	45.81	-28.19	74	51.71	40.02	15.66	61.58	100	0	P	H
		17100	47.39	-26.61	74	43.88	40.06	19.53	56.08	100	0	P	H
													H
													H
		11400	45.73	-28.27	74	51.63	40.02	15.66	61.58	100	0	P	V
		17100	47.73	-26.27	74	44.22	40.06	19.53	56.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5462.64	49.09	-19.11	68.2	40.75	32.07	9.29	33.02	100	110	P	H
		5458.8	41.13	-12.87	54	32.81	32.05	9.29	33.02	100	110	P	H
	*	5500	100.75	-	-	92.3	32.1	9.37	33.02	100	110	P	H
	*	5500	93.3	-	-	84.85	32.1	9.37	33.02	100	110	A	H
													H
													H
		5461.68	49.05	-19.15	68.2	40.73	32.05	9.29	33.02	312	336	P	V
		5459.92	40.01	-13.99	54	31.69	32.05	9.29	33.02	312	336	P	V
	*	5500	96.76	-	-	88.31	32.1	9.37	33.02	312	336	P	V
	*	5500	89.29	-	-	80.84	32.1	9.37	33.02	312	336	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5464	49.67	-18.53	68.2	41.33	32.07	9.29	33.02	116	121	P	H
		5455.75	39.58	-14.42	54	31.26	32.05	9.29	33.02	116	121	P	H
	*	5580	101.97	-	-	93.34	32.22	9.48	33.07	116	121	P	H
	*	5580	94.34	-	-	85.71	32.22	9.48	33.07	116	121	A	H
		5764.415	49.76	-18.44	68.2	40.4	32.57	9.95	33.16	116	121	P	H
		5754.275	40.99	-13.01	54	31.69	32.57	9.88	33.15	116	121	A	H
		5466.25	48.48	-19.72	68.2	40.14	32.07	9.29	33.02	319	342	P	V
		5458.5	39.73	-14.27	54	31.41	32.05	9.29	33.02	319	342	A	V
	*	5580	98.46	-	-	89.83	32.22	9.48	33.07	319	342	P	V
	*	5580	90.87	-	-	82.24	32.22	9.48	33.07	319	342	A	V
		5726.195	48.89	-19.31	68.2	39.71	32.5	9.81	33.13	319	342	P	V
		5756.42	40.75	-13.25	54	31.39	32.57	9.95	33.16	319	342	A	V



FCC RADIO TEST REPORT

Report No. : FR850432D

802.11n HT20 CH 140 5700MHz	*	5700	107.81	-	-	98.74	32.44	9.75	33.12	102	120	P	H
	*	5700	100.19	-	-	91.12	32.44	9.75	33.12	102	120	A	H
		5725.88	62.97	-5.23	68.2	53.79	32.5	9.81	33.13	102	120	P	H
													H
													H
													H
	*	5700	100.72	-	-	91.65	32.44	9.75	33.12	358	342	P	V
	*	5700	92.94	-	-	83.87	32.44	9.75	33.12	358	342	A	V
		5725.24	55.74	-12.46	68.2	46.56	32.5	9.81	33.13	358	342	P	V
													V
													V
													V
Remark													



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		11000	45.84	-28.16	74	51.86	40.1	15.38	61.5	100	0	P	H
		16500	43.85	-24.35	68.2	43.61	38.5	19.04	57.3	100	0	P	H
													H
													H
		11000	46.46	-27.54	74	52.48	40.1	15.38	61.5	100	0	P	V
		16500	44.23	-23.97	68.2	43.99	38.5	19.04	57.3	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	46.14	-27.86	74	52.11	40.07	15.49	61.53	100	0	P	H
		16740	45.84	-22.36	68.2	44.33	39.08	19.25	56.82	100	0	P	H
													H
													H
		11160	46.22	-27.78	74	52.19	40.07	15.49	61.53	100	0	P	V
		16740	46.53	-21.67	68.2	45.02	39.08	19.25	56.82	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	48.18	-25.82	74	54.08	40.02	15.66	61.58	100	0	P	H
		17100	47.83	-20.37	68.2	44.32	40.06	19.53	56.08	100	0	P	H
													H
													H
		11400	46.62	-27.38	74	52.52	40.02	15.66	61.58	100	0	P	V
		17100	47.84	-20.36	68.2	44.33	40.06	19.53	56.08	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 μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5459.92	50.42	-23.58	74	42.1	32.05	9.29	33.02	100	109	P	H
		5469.28	53.95	-14.25	68.2	45.61	32.07	9.29	33.02	100	109	P	H
		5458.72	43.6	-10.4	54	35.28	32.05	9.29	33.02	100	109	A	H
	*	5510	100.06	-	-	91.62	32.1	9.37	33.03	100	109	P	H
	*	5510	91.61	-	-	83.17	32.1	9.37	33.03	100	109	A	H
		5733.5	50.15	-18.05	68.2	40.92	32.5	9.88	33.15	100	109	P	H
		5444.08	49.4	-24.6	74	41.13	32.03	9.26	33.02	384	337	P	V
		5469.76	51.05	-17.15	68.2	42.71	32.07	9.29	33.02	384	337	P	V
		5459.44	41.43	-12.57	54	33.11	32.05	9.29	33.02	384	337	A	V
	*	5510	96.18	-	-	87.74	32.1	9.37	33.03	384	337	P	V
	*	5510	87.79	-	-	79.35	32.1	9.37	33.03	384	337	A	V
		5741.375	50.03	-18.17	68.2	40.77	32.53	9.88	33.15	384	337	P	V
802.11n HT40 CH 110 5550MHz		5445.28	48.41	-25.59	74	40.11	32.03	9.29	33.02	100	109	P	H
		5468.32	48.71	-19.49	68.2	40.37	32.07	9.29	33.02	100	109	P	H
		5459.2	41.34	-12.66	54	33.02	32.05	9.29	33.02	100	109	A	H
	*	5550	100.4	-	-	91.82	32.19	9.44	33.05	100	109	P	H
	*	5550	92.14	-	-	83.56	32.19	9.44	33.05	100	109	A	H
		5751.77	49.75	-18.45	68.2	40.45	32.57	9.88	33.15	100	109	P	H
		5428.96	48.83	-25.17	74	40.56	32.03	9.26	33.02	400	334	P	V
		5468.8	48.75	-19.45	68.2	40.41	32.07	9.29	33.02	400	334	P	V
		5459.68	40.71	-13.29	54	32.39	32.05	9.29	33.02	400	334	A	V
	*	5550	96.46	-	-	87.88	32.19	9.44	33.05	400	334	P	V
	*	5550	88.04	-	-	79.46	32.19	9.44	33.05	400	334	A	V
		5730.98	48.99	-19.21	68.2	39.76	32.5	9.88	33.15	400	334	P	V



		5398.65	47.85	-26.15	74	39.65	32	9.22	33.02	114	121	P	H
		5470	46.97	-21.23	68.2	38.63	32.07	9.29	33.02	114	121	P	H
		5459.55	40.43	-13.57	54	32.11	32.05	9.29	33.02	114	121	A	H
802.11n	*	5670	104.04	-	-	95.06	32.41	9.68	33.11	114	121	P	H
HT40	*	5670	95.48	-	-	86.5	32.41	9.68	33.11	114	121	A	H
CH 134		5742.075	57.34	-10.86	68.2	48.08	32.53	9.88	33.15	114	121	P	H
5670MHz		5365.4	47.87	-26.13	74	39.74	31.97	9.19	33.03	384	332	P	V
		5463.4	48.32	-19.88	68.2	39.98	32.07	9.29	33.02	384	332	P	V
		5440.65	40.58	-13.42	54	32.31	32.03	9.26	33.02	384	332	A	V
	*	5670	98.52	-	-	89.54	32.41	9.68	33.11	384	332	P	V
	*	5670	89.95	-	-	80.97	32.41	9.68	33.11	384	332	A	V
		5763.95	50.62	-17.58	68.2	41.26	32.57	9.95	33.16	384	332	P	V
Remark	<ol style="list-style-type: none">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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		11020	46.57	-27.43	74	52.57	40.1	15.4	61.5	100	0	P	H
		16530	44.85	-23.35	68.2	44.44	38.58	19.06	57.23	100	0	P	H
													H
													H
		11020	46.09	-27.91	74	52.09	40.1	15.4	61.5	100	0	P	V
		16530	45.32	-22.88	68.2	44.91	38.58	19.06	57.23	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	45.51	-28.49	74	51.5	40.08	15.45	61.52	100	0	P	H
		16650	44.54	-23.66	68.2	43.49	38.87	19.17	56.99	100	0	P	H
													H
													H
		11100	46.05	-27.95	74	52.04	40.08	15.45	61.52	100	0	P	V
		16650	44.54	-23.66	68.2	43.49	38.87	19.17	56.99	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	45.82	-28.18	74	51.74	40.03	15.62	61.57	100	0	P	H
		17010	46.6	-21.6	68.2	43.62	39.76	19.48	56.26	100	0	P	H
													H
													H
		11340	45.58	-28.42	74	51.5	40.03	15.62	61.57	100	0	P	V
		17010	47.95	-20.25	68.2	44.97	39.76	19.48	56.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		5458.48	50.01	-23.99	74	41.69	32.05	9.29	33.02	100	111	P	H
		5463.76	51.48	-16.72	68.2	43.14	32.07	9.29	33.02	100	111	P	H
		5459.92	42.77	-11.23	54	34.45	32.05	9.29	33.02	100	111	A	H
	*	5530	93.86	-	-	85.37	32.13	9.41	33.05	100	111	P	H
	*	5530	85.88	-	-	77.39	32.13	9.41	33.05	100	111	A	H
		5751.455	49.23	-18.97	68.2	39.97	32.53	9.88	33.15	100	111	P	H
		5458.24	48.04	-25.96	74	39.72	32.05	9.29	33.02	383	337	P	V
		5464.96	48.53	-19.67	68.2	40.19	32.07	9.29	33.02	383	337	P	V
		5459.2	41.34	-12.66	54	33.02	32.05	9.29	33.02	383	337	A	V
	*	5530	90.23	-	-	81.74	32.13	9.41	33.05	383	337	P	V
	*	5530	81.93	-	-	73.44	32.13	9.41	33.05	383	337	A	V
		5753.03	48.71	-19.49	68.2	39.41	32.57	9.88	33.15	383	337	P	V
802.11ac VHT80 CH 122 5610MHz		5445.9	48.95	-25.05	74	40.63	32.05	9.29	33.02	100	121	P	H
		5467.6	48.51	-19.69	68.2	40.17	32.07	9.29	33.02	100	121	P	H
		5427.7	40.49	-13.51	54	32.23	32.02	9.26	33.02	100	121	A	H
	*	5610	96.61	-	-	87.85	32.29	9.55	33.08	100	121	P	H
	*	5610	88.32	-	-	79.56	32.29	9.55	33.08	100	121	A	H
		5732.975	49.75	-18.45	68.2	40.52	32.5	9.88	33.15	100	121	P	H
		5410.2	50.14	-23.86	74	41.94	32	9.22	33.02	369	341	P	V
		5467.95	49	-19.2	68.2	40.66	32.07	9.29	33.02	369	341	P	V
		5398.65	40.39	-13.61	54	32.19	32	9.22	33.02	369	341	A	V
	*	5610	91.57	-	-	82.81	32.29	9.55	33.08	369	341	P	V
	*	5610	82.93	-	-	74.17	32.29	9.55	33.08	369	341	A	V
		5758.7	50.11	-18.09	68.2	40.75	32.57	9.95	33.16	369	341	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. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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		11060	45.76	-28.24	74	51.76	40.09	15.42	61.51	100	0	P	H
		16590	45.41	-22.79	68.2	44.72	38.71	19.11	57.13	100	0	P	H
													H
													H
		11060	45.62	-28.38	74	51.62	40.09	15.42	61.51	100	0	P	V
		16590	44.77	-23.43	68.2	44.08	38.71	19.11	57.13	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	46.38	-27.62	74	52.32	40.06	15.25	61.54	100	0	P	H
		16830	46.38	-21.82	68.2	44.4	39.29	19	56.64	100	0	P	H
													H
													H
		11220	47.58	-26.42	74	53.52	40.06	15.25	61.54	100	0	P	V
		16830	46	-22.2	68.2	44.02	39.29	19	56.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5451.01	48.67	-25.33	74	40.35	32.05	9.29	33.02	100	121	P	H
		5465.44	47.12	-21.08	68.2	38.78	32.07	9.29	33.02	100	121	P	H
		5443.6	39.91	-14.09	54	31.64	32.03	9.26	33.02	100	121	A	H
	*	5720	102.13	-	-	92.95	32.5	9.81	33.13	100	121	P	H
	*	5720	93.96	-	-	84.78	32.5	9.81	33.13	100	121	A	H
		5913	51.88	-16.32	68.2	42.25	32.84	10.02	33.23	100	121	P	H
		5392.51	48.95	-25.05	74	40.79	31.98	9.2	33.02	101	265	P	V
		5468.95	48.38	-19.82	68.2	40.04	32.07	9.29	33.02	101	265	P	V
		5440.87	39.62	-14.38	54	31.35	32.03	9.26	33.02	101	265	A	V
	*	5720	99.28	-	-	90.1	32.5	9.81	33.13	101	265	P	V
	*	5720	91.01	-	-	81.83	32.5	9.81	33.13	101	265	A	V
		5878.75	49.89	-18.31	68.2	40.3	32.78	10.02	33.21	101	265	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	46.61	-27.39	74	52.51	40.01	15.68	61.59	100	0	P	H
		17160	46.4	-21.8	68.2	42.47	40.3	19.56	55.93	100	0	P	H
													H
		11440	45.41	-28.59	74	51.31	40.01	15.68	61.59	100	0	P	V
		17160	46.35	-21.85	68.2	42.42	40.3	19.56	55.93	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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 144 5720MHz		5436.19	47.68	-26.32	74	39.41	32.03	9.26	33.02	103	118	P	H
		5459.98	47.07	-26.93	74	38.75	32.05	9.29	33.02	103	118	P	H
		5459.98	39.75	-14.25	54	31.43	32.05	9.29	33.02	103	118	A	H
	*	5720	102.09	-	-	92.91	32.5	9.81	33.13	103	118	P	H
	*	5720	93.36	-	-	84.18	32.5	9.81	33.13	103	118	A	H
		5856.75	50.36	-17.84	68.2	40.78	32.75	10.02	33.19	103	118	P	H
		5430.73	49.35	-24.65	74	41.08	32.03	9.26	33.02	103	263	P	V
		5462.71	47.17	-21.03	68.2	38.83	32.07	9.29	33.02	103	263	P	V
		5428	39.78	-14.22	54	31.52	32.02	9.26	33.02	103	263	A	V
	*	5720	98.76	-	-	89.58	32.5	9.81	33.13	103	263	P	V
	*	5720	90	-	-	80.82	32.5	9.81	33.13	103	263	A	V
		5871	50.79	-17.41	68.2	41.2	32.78	10.02	33.21	103	263	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	45.56	-28.44	74	51.46	40.01	15.68	61.59	100	0	P	H
		17160	46.04	-22.16	68.2	42.11	40.3	19.56	55.93	100	0	P	H
													H
													H
		11440	45.58	-28.42	74	51.48	40.01	15.68	61.59	100	0	P	V
		17160	46.08	-22.12	68.2	42.15	40.3	19.56	55.93	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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 142 5710MHz		5367.16	47.67	-26.33	74	39.53	31.97	9.2	33.03	108	118	P	H
		5468.56	48.77	-19.43	68.2	40.43	32.07	9.29	33.02	108	118	P	H
		5459.98	40.42	-13.58	54	32.1	32.05	9.29	33.02	108	118	A	H
	*	5710	90.66	-	-	81.51	32.47	9.81	33.13	108	118	A	H
	*	5716	99.13	-	-	89.98	32.47	9.81	33.13	108	118	P	H
		5865.25	51.09	-17.11	68.2	41.53	32.75	10.02	33.21	108	118	P	H
		5398.36	48.09	-25.91	74	39.89	32	9.22	33.02	106	263	P	V
		5466.61	48.83	-19.37	68.2	40.49	32.07	9.29	33.02	106	263	P	V
		5431.9	40.23	-13.77	54	31.96	32.03	9.26	33.02	106	263	A	V
	*	5710	95.26	-	-	86.11	32.47	9.81	33.13	106	263	P	V
	*	5710	86.85	-	-	77.7	32.47	9.81	33.13	106	263	A	V
		5857.75	49.99	-18.21	68.2	40.41	32.75	10.02	33.19	106	263	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	45.02	-28.98	74	50.91	40.02	15.67	61.58	100	0	P	H
		17130	46.87	-21.33	68.2	43.15	40.18	19.55	56.01	100	0	P	H
													H
													H
		11420	45.34	-28.66	74	51.23	40.02	15.67	61.58	100	0	P	V
		17130	45.47	-22.73	68.2	41.75	40.18	19.55	56.01	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ 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 138 5690MHz		5433.46	49.54	-24.46	74	41.27	32.03	9.26	33.02	110	120	P	H
		5470	49.13	-19.07	68.2	40.79	32.07	9.29	33.02	110	120	P	H
		5438.53	40.68	-13.32	54	32.41	32.03	9.26	33.02	110	120	A	H
	*	5690	93.55	-	-	84.48	32.44	9.75	33.12	110	120	P	H
	*	5690	85.63	-	-	76.56	32.44	9.75	33.12	110	120	A	H
		5892.25	49.69	-18.51	68.2	40.08	32.81	10.02	33.22	110	120	P	H
		5450.23	49.16	-24.84	74	40.84	32.05	9.29	33.02	114	263	P	V
		5464.66	48.48	-19.72	68.2	40.14	32.07	9.29	33.02	114	263	P	V
		5420.2	40.28	-13.72	54	32.02	32.02	9.26	33.02	114	263	A	V
	*	5690	90.19	-	-	81.12	32.44	9.75	33.12	114	263	P	V
	*	5690	82.01	-	-	72.94	32.44	9.75	33.12	114	263	A	V
		5932.5	50.2	-18	68.2	40.53	32.88	10.02	33.23	114	263	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	46.24	-27.76	74	52.15	40.02	15.65	61.58	100	0	P	H
		17070	46.51	-21.69	68.2	43.2	39.94	19.52	56.15	100	0	P	H
													H
													H
		11380	45.89	-28.11	74	51.8	40.02	15.65	61.58	100	0	P	V
		17070	46.64	-21.56	68.2	43.33	39.94	19.52	56.15	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

**Note symbol**

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



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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	Temperature :	21~24°C
		Relative Humidity :	51~57%

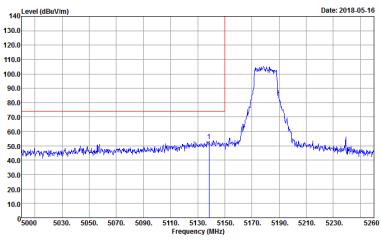
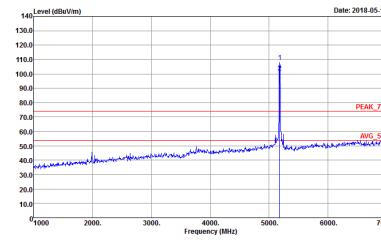
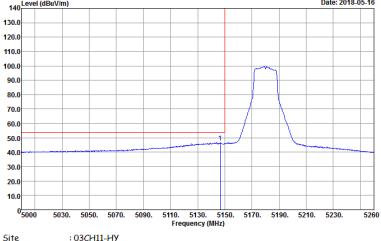
Note symbol

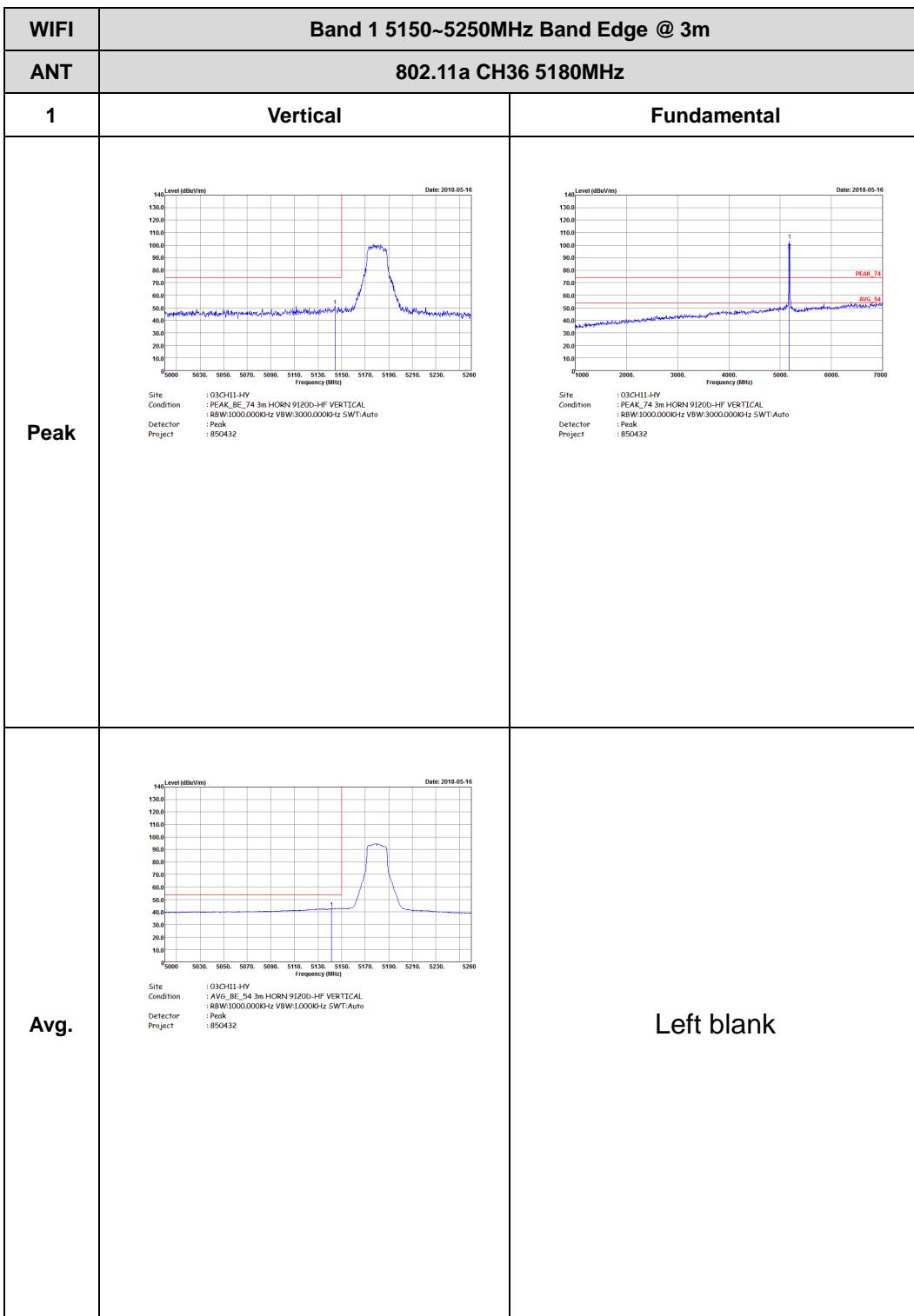
-L	Low channel location
-R	High channel location



Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000Hz SWT:Auto Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000Hz SWT:Auto Project : 850432</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000Hz SWT:Auto Project : 850432</p>	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank



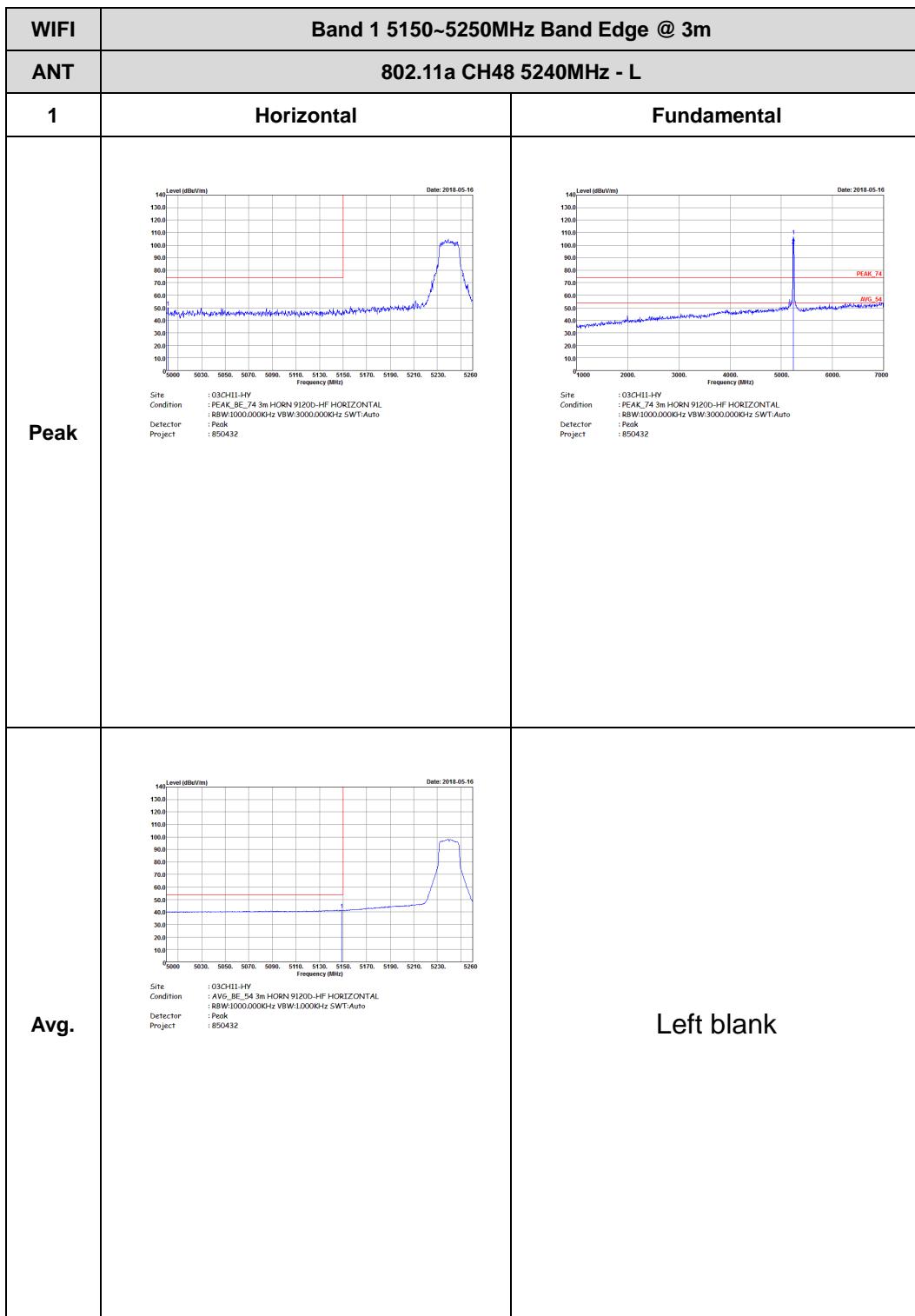
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank



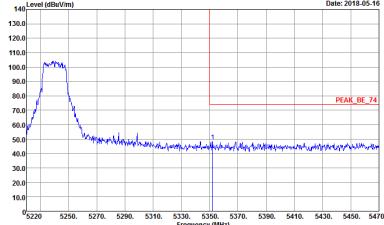
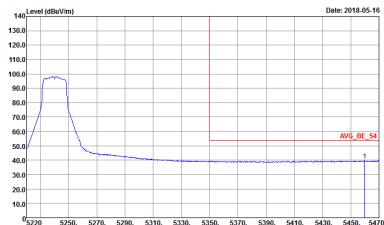
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank

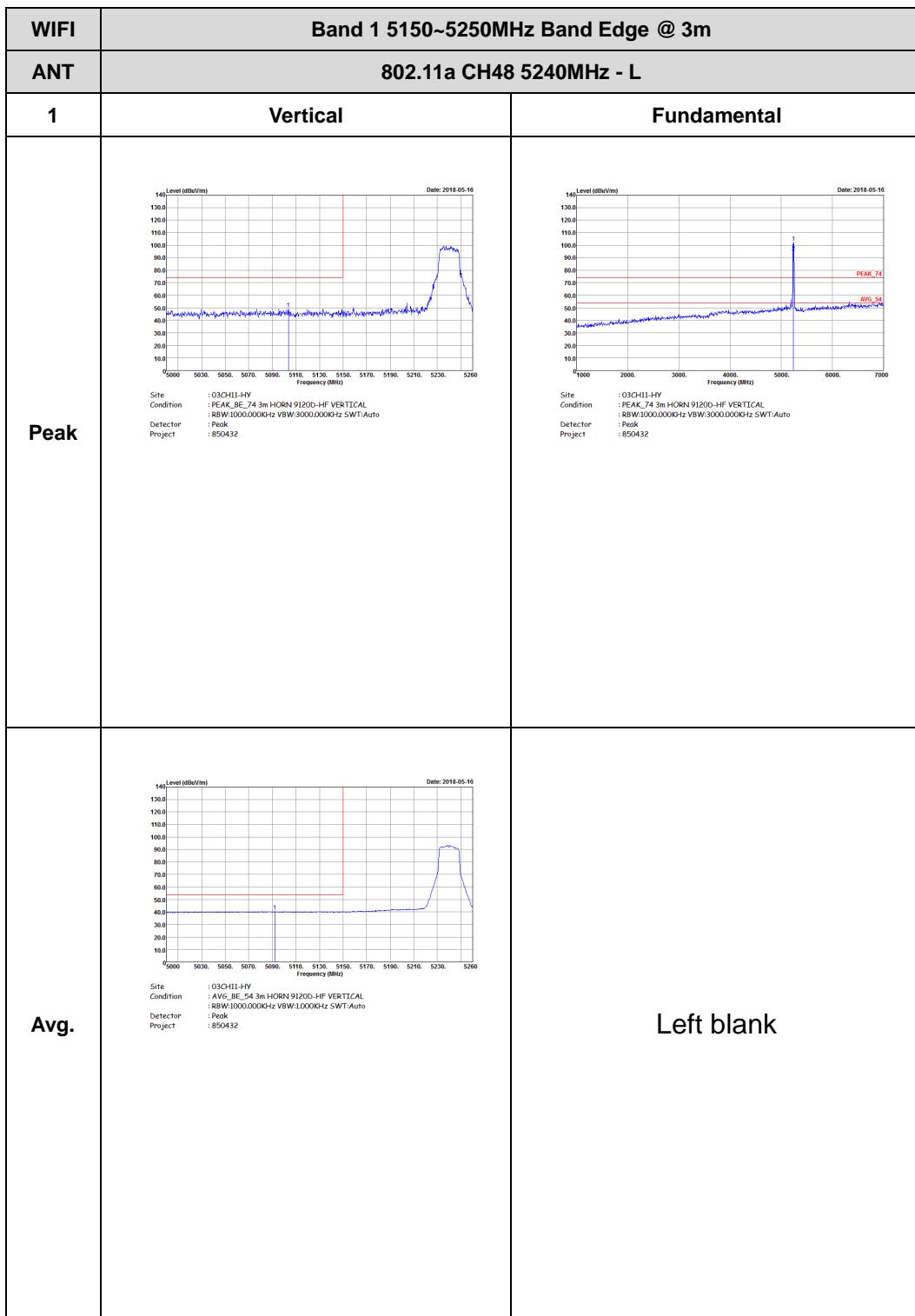


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m) vs Frequency (MHz) for Peak measurement. The graph shows a sharp peak at approximately 5240 MHz reaching about 100 dBmV/m. A red step function indicates the band edge. The plot is dated 2018-05-16.</p> <p>Site : 03CH1-HY Condition : PCAC_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Level (dBmV/m) vs Frequency (MHz) for Avg. measurement. The graph shows a peak at approximately 5240 MHz reaching about 90 dBmV/m. A red step function indicates the band edge. The plot is dated 2018-05-16.</p> <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank

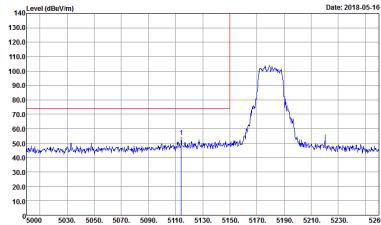
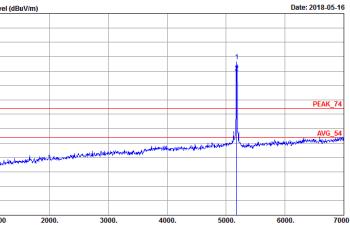
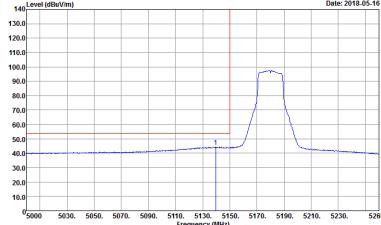


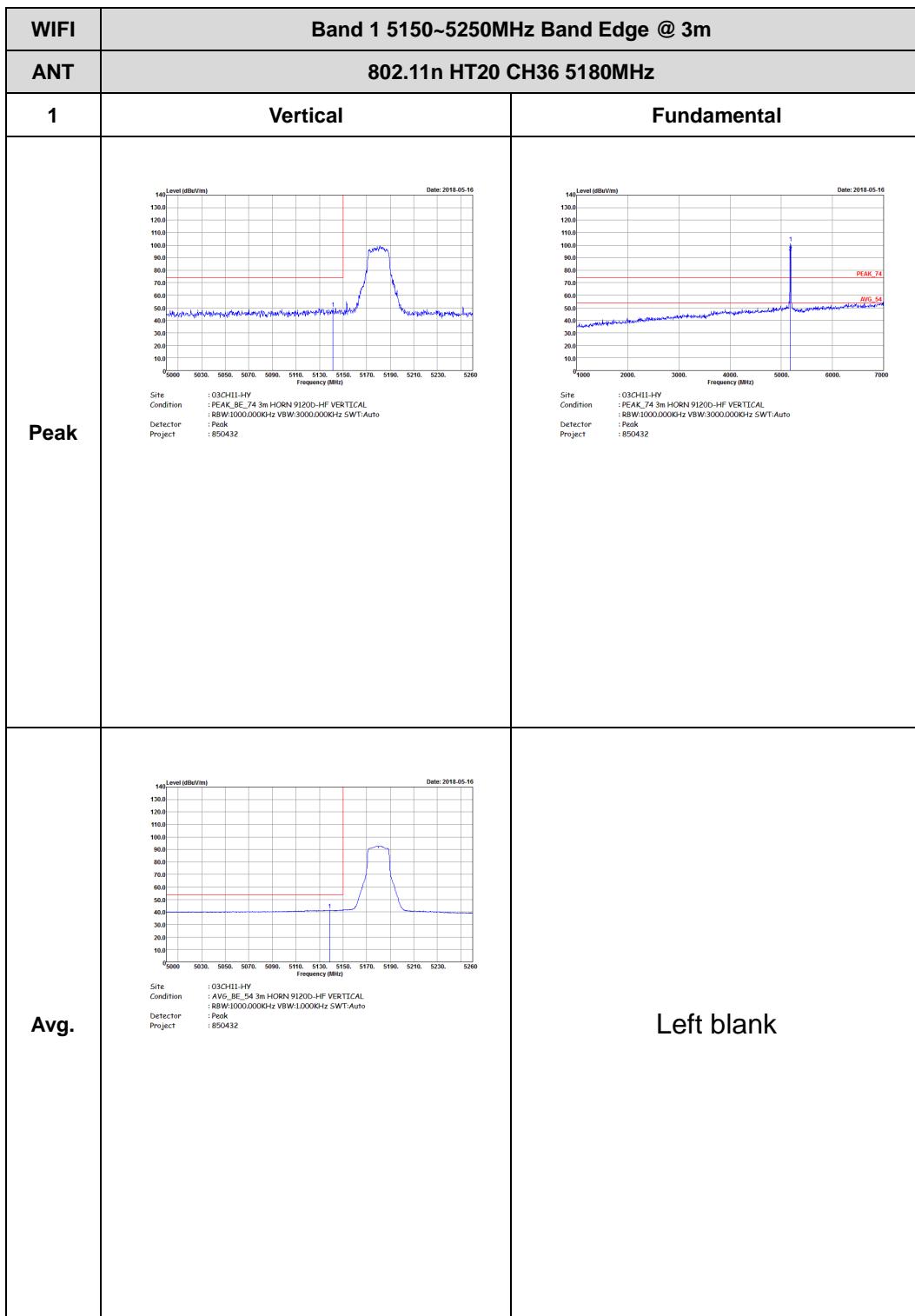


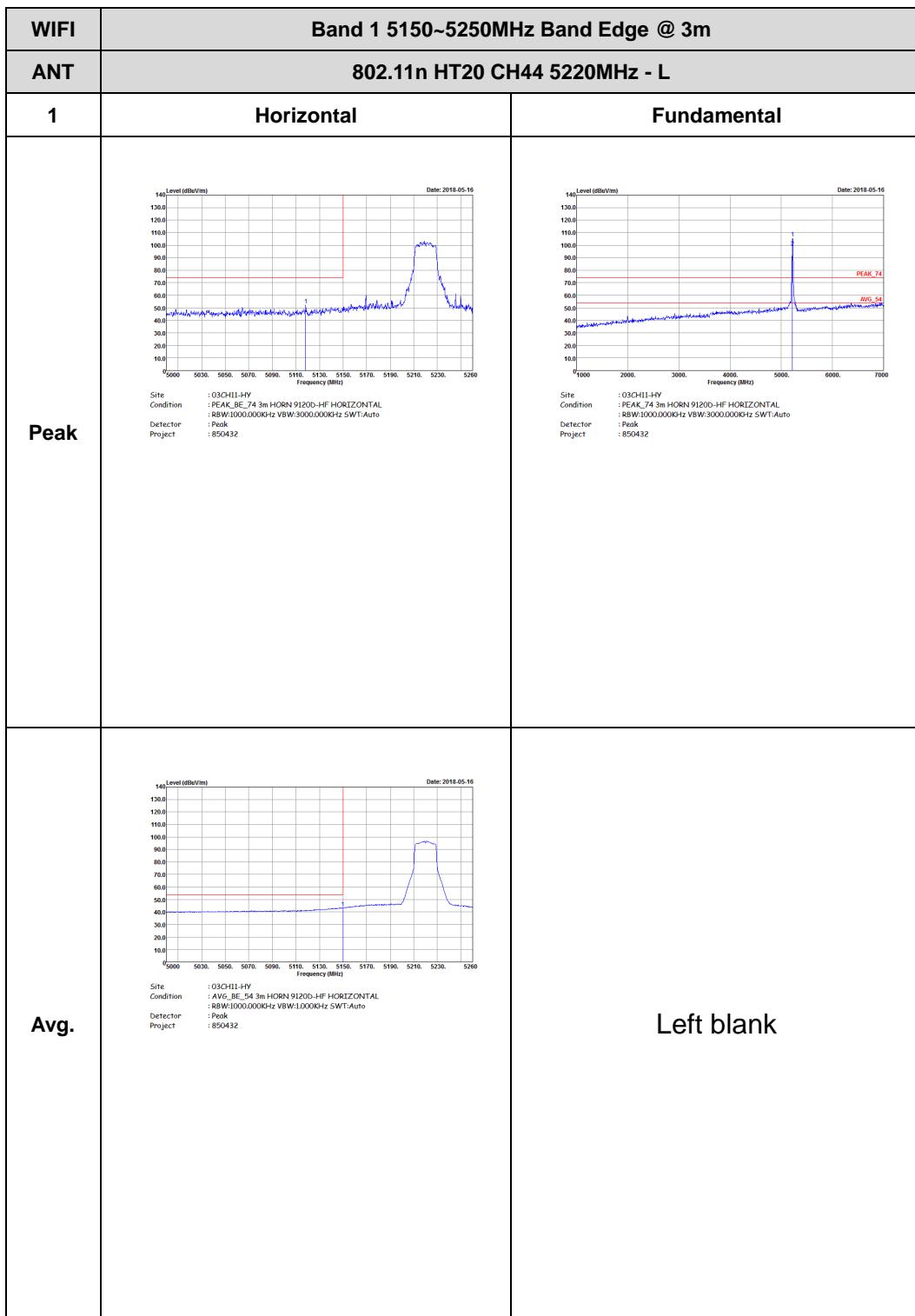
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5470. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5470 MHz. The plot is dated 2018-05-16.</p> <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5470. The plot shows a broad average level 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 5220 to 5470 MHz. The plot is dated 2018-05-16.</p> <p>Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank



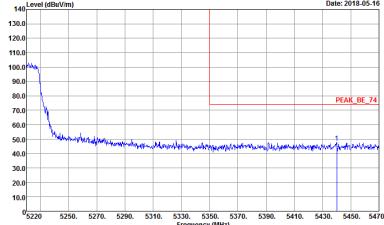
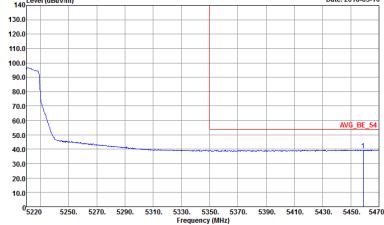
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2018-05-16 Site: 03CH11-HY Condition: PC_BE_74 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak : 850432</p>	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2018-05-16 Site: 03CH11-HY Condition: PC_BE_74 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak : 850432</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2018-05-16 Site: 03CH11-HY Condition: AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project: Peak : 850432</p>	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) vs Frequency (MHz) Date: 2018-05-16 Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-16 Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Date: 2018-05-16 Site : 03CH1-HY Condition : PCAC_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432	Left blank
Avg.	 Date: 2018-05-16 Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank

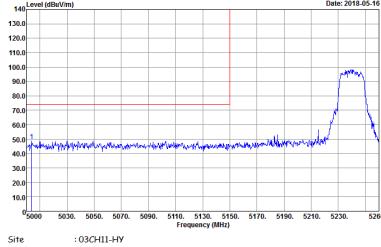
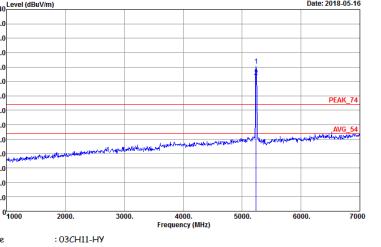
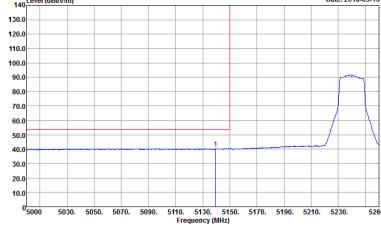


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 850432
Avg.	 Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	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) vs Frequency (MHz) Date: 2018-05-16 Site : 03CH11-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-16 Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank



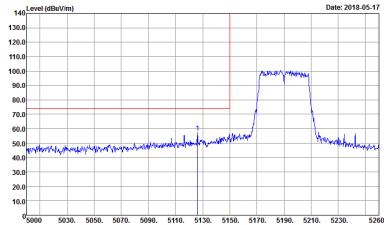
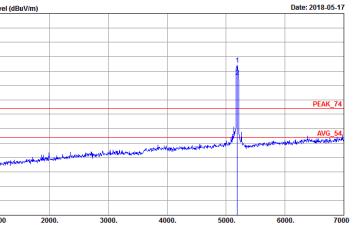
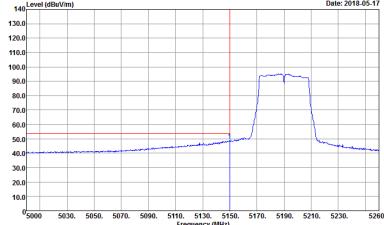
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-16</p> <p>Frequency (MHz)</p> <p>Site : 03CH11-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m)</p> <p>Date: 2018-05-16</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : Peak Project : 850432</p>	Left blank



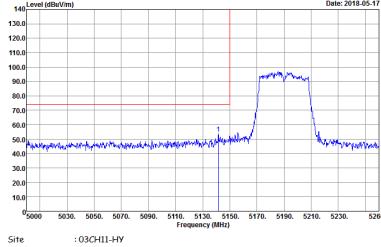
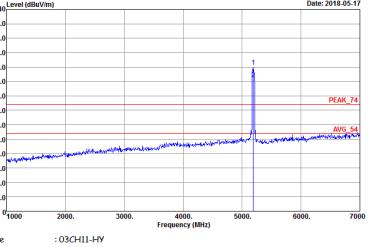
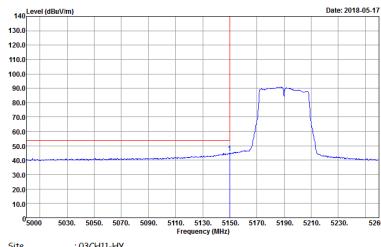
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5250. A sharp peak is visible at 5190 MHz. The plot is labeled "Date: 2018-05-17".</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project ID : 850432</p>	 <p>Level (dBuV/m) vs Frequency (MHz) from 1000 to 7000. A sharp peak is visible at 5190 MHz. The plot is labeled "Date: 2018-05-17".</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project ID : 850432</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5250. A broad peak is visible at 5190 MHz. The plot is labeled "Date: 2018-05-17".</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project ID : 850432</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank
Avg.	<p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	Left blank

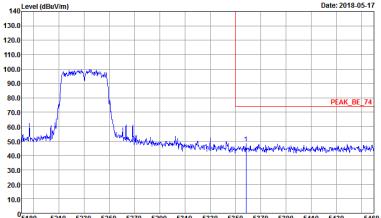
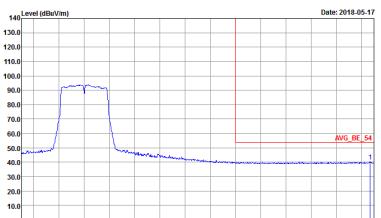


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000.000Hz SWT:Auto Project : 850432
Avg.	 Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-17 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	 <p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-17 Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000.000Hz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-17 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) Date: 2018-05-17 Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</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	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Date: 2018-05-17 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432	Left blank
Avg.	 Date: 2018-05-17 Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Date: 2018-05-17 Frequency (MHz) 5000, 5030, 5050, 5070, 5090, 5110, 5130, 5150, 5170, 5190, 5210, 5230, 5260 Level (dBm/V/m) 10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0, 110.0, 120.0, 130.0, 140.0	 Site : 03CH11-HY Condition : PCAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Date: 2018-05-17 Frequency (MHz) 1000, 2000, 3000, 4000, 5000, 6000, 7000 Level (dBm/V/m) 10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0, 110.0, 120.0, 130.0, 140.0 PEAK_74 AVG_54
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Date: 2018-05-17 Frequency (MHz) 5000, 5030, 5050, 5070, 5090, 5110, 5130, 5150, 5170, 5190, 5210, 5230, 5260 Level (dBm/V/m) 10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0, 110.0, 120.0, 130.0, 140.0	Left blank

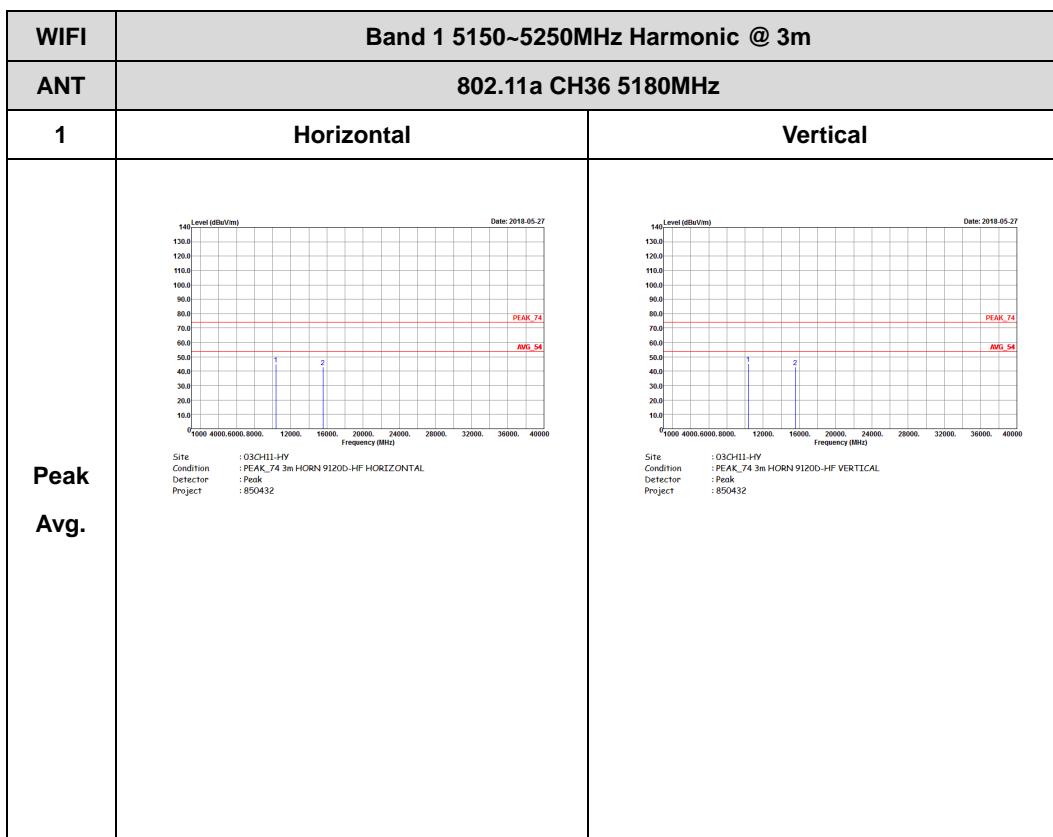


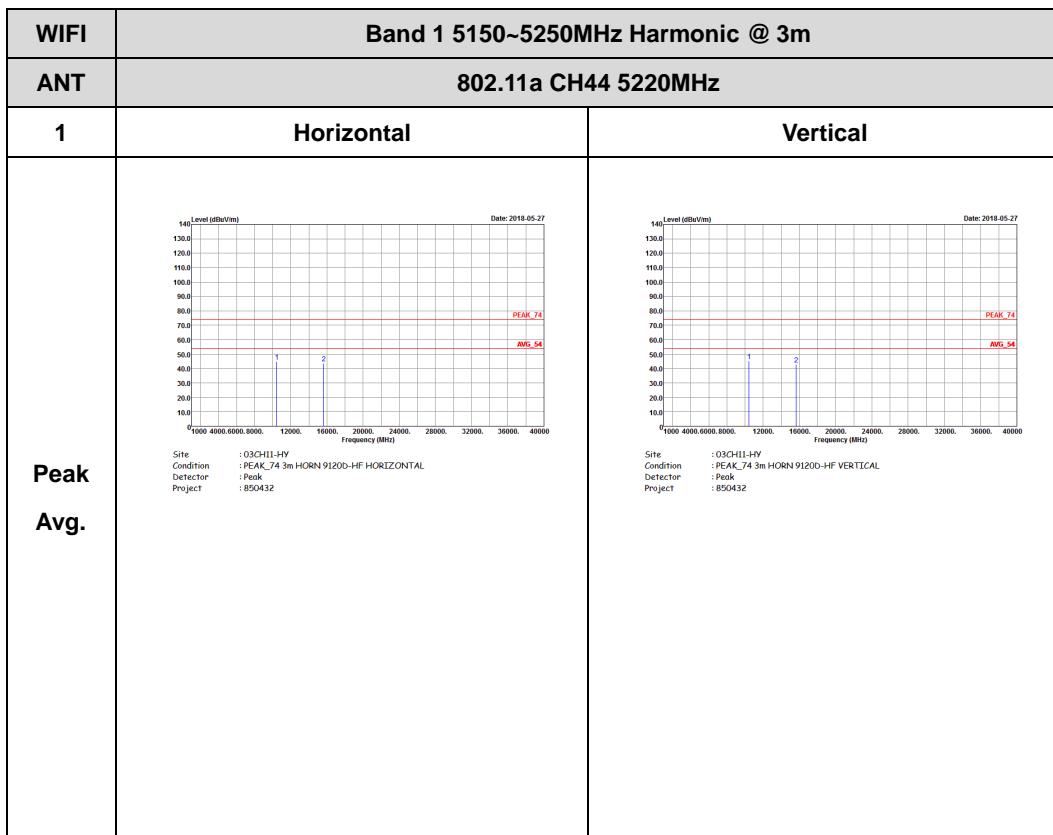
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 9120D-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank
Avg.	<p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Project : 850432</p>	Left blank

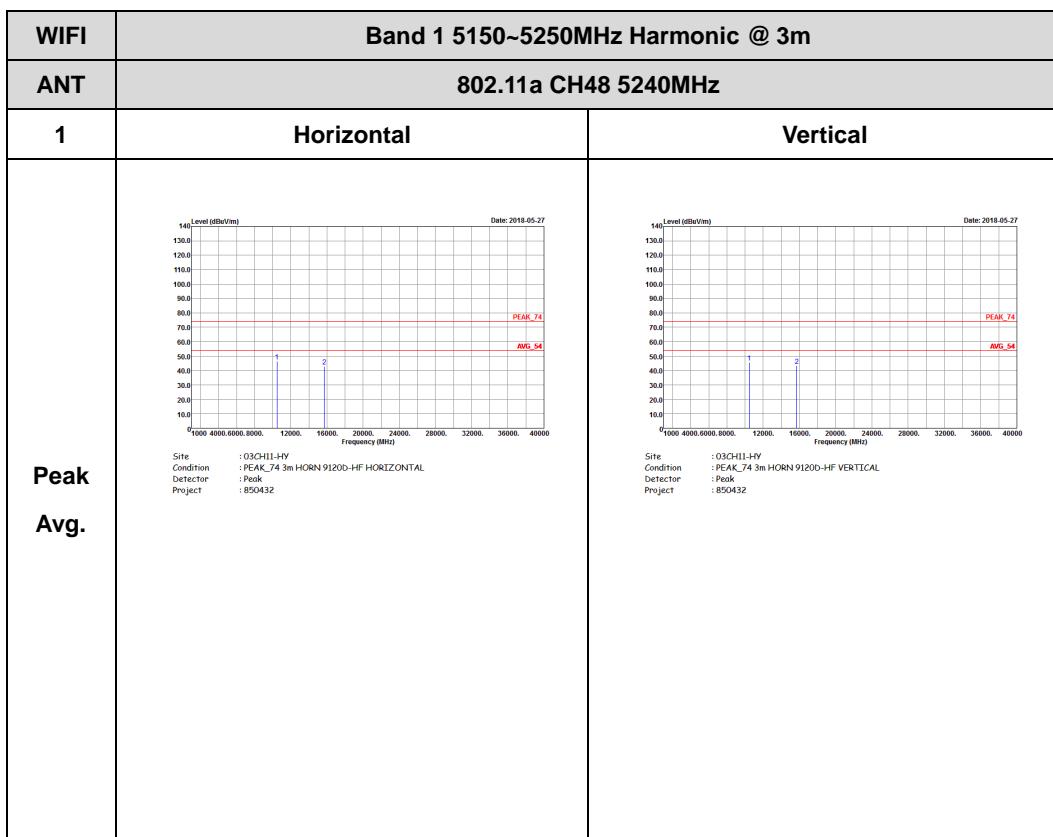


Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

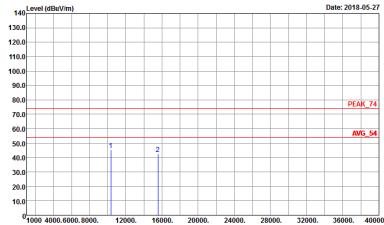
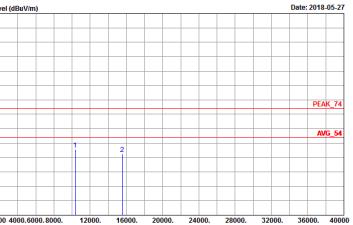


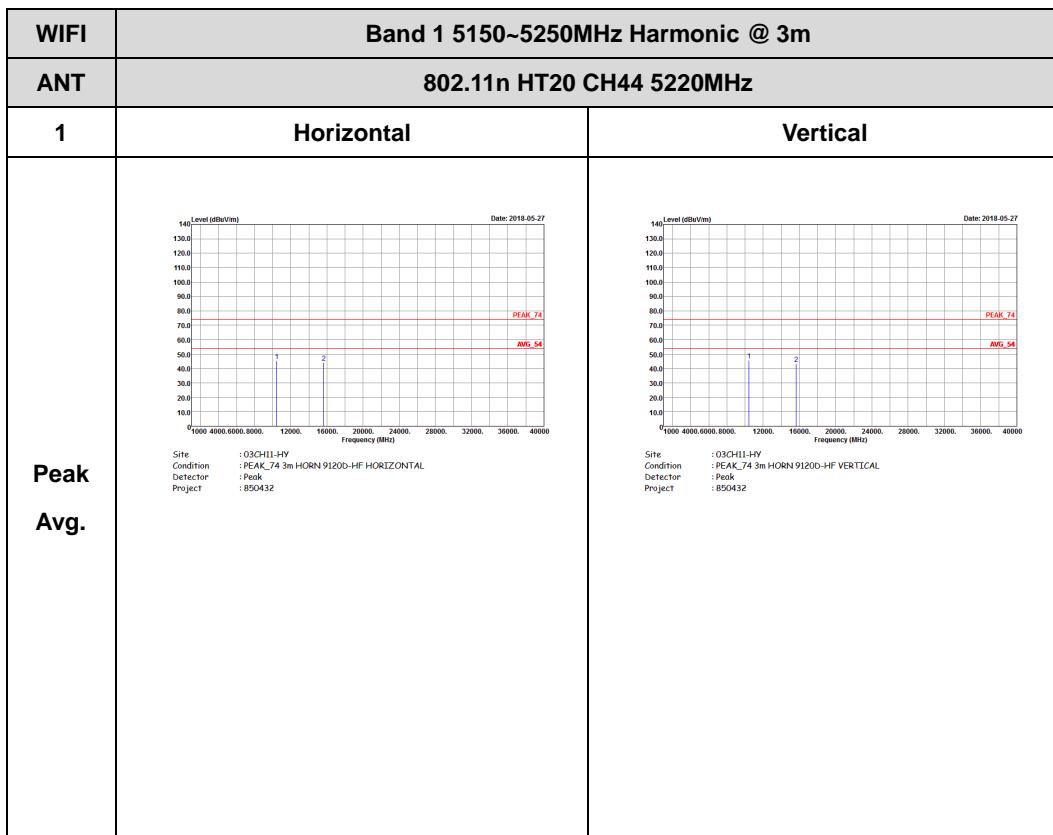


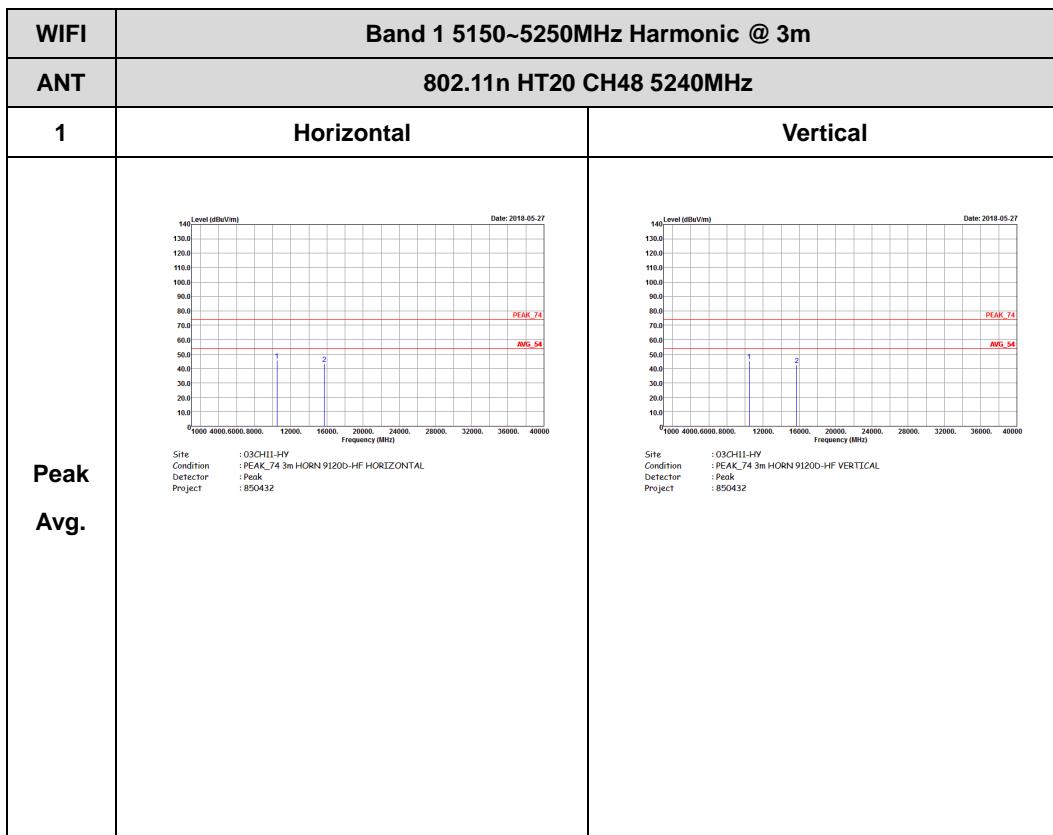




Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

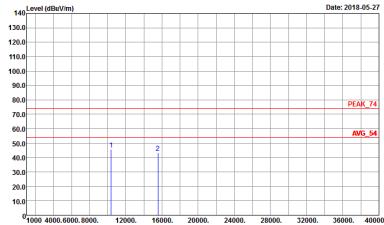
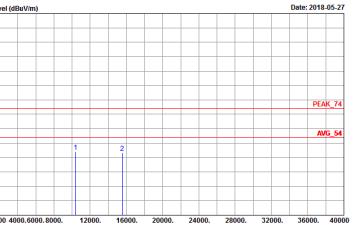
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK-74 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK-74 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		

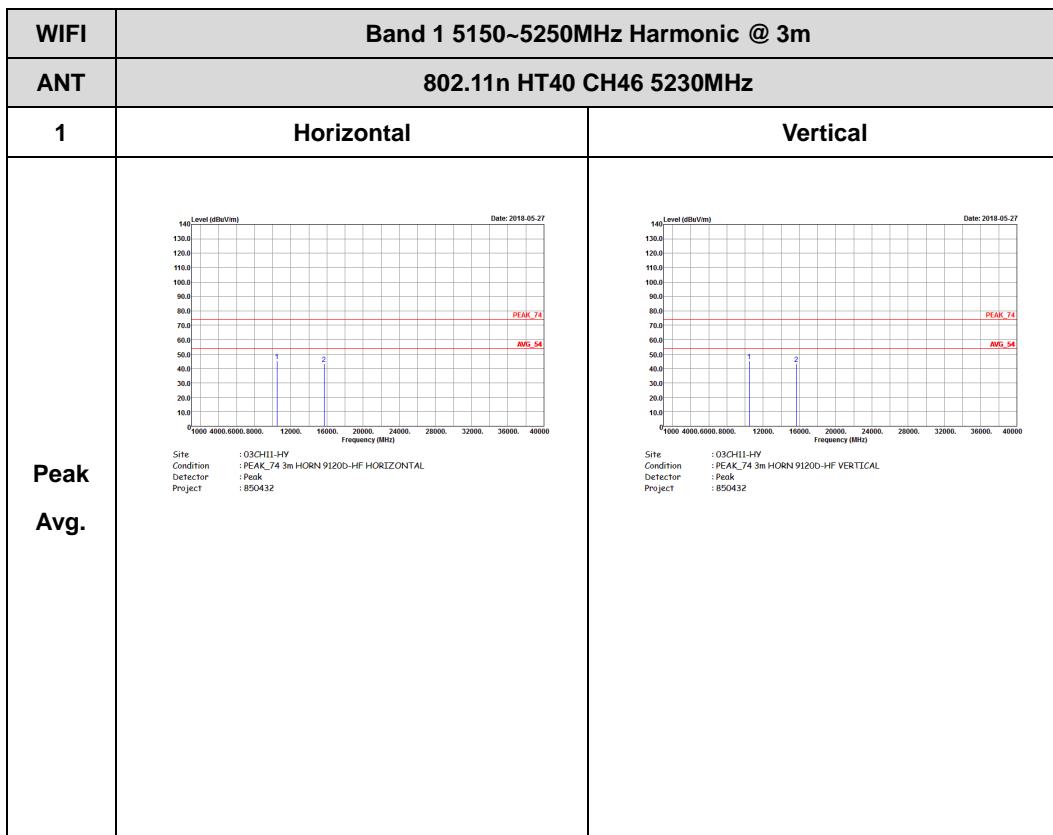






Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

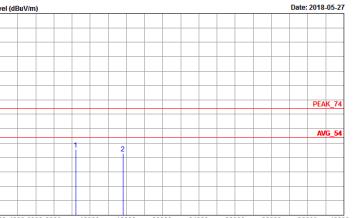
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		





Band 1 5150~5250MHz

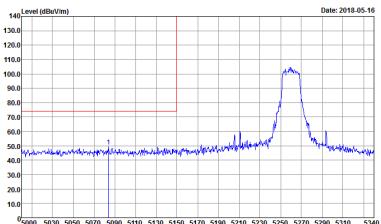
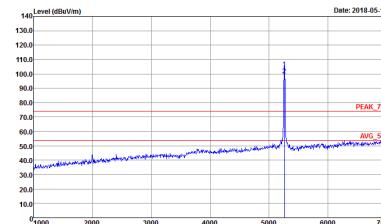
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak	 <p>Date: 2018-05-27</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Date: 2018-05-27</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		



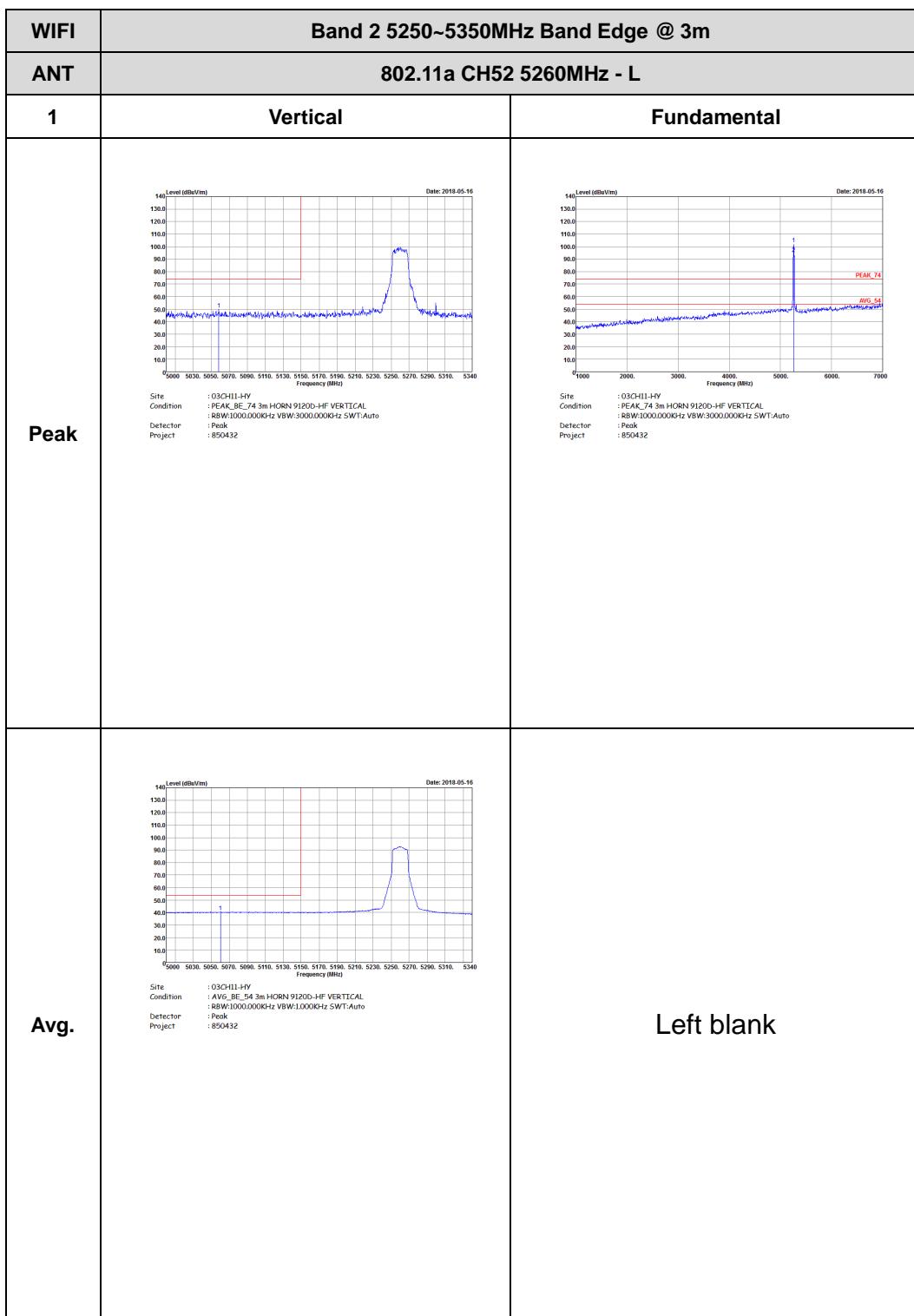
Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000Hz SWT:Auto Project : 850432</p>	 <p>Site : 03CH1-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000kHz VBW:3000.000Hz SWT:Auto Project : 850432</p>
Avg.	 <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000kHz VBW:1.000Hz SWT:Auto Project : 850432</p>	Left blank

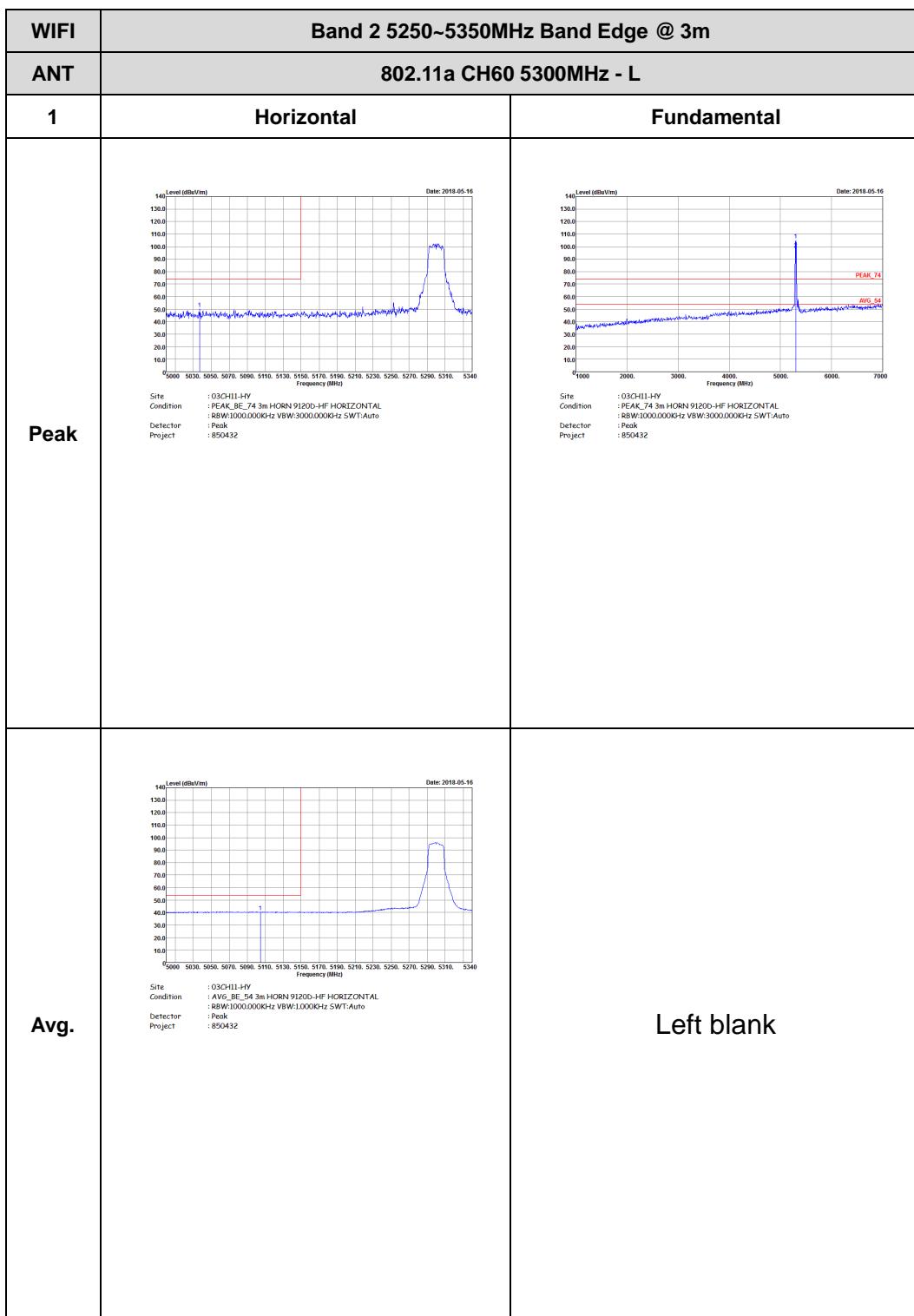


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Date: 2018-05-16 Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432	Left blank
Avg.	 Date: 2018-05-16 Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



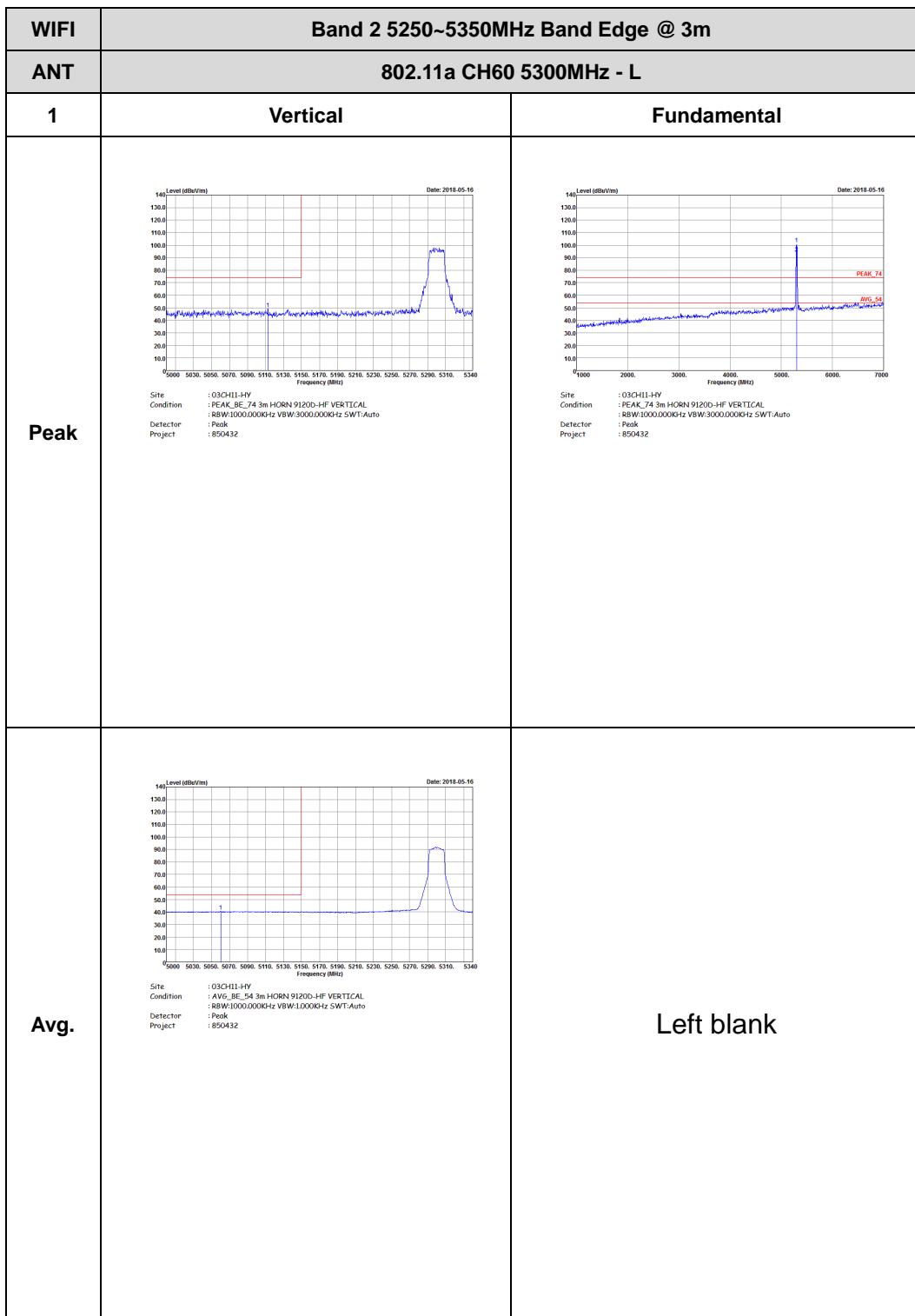


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Date: 2018-05-16 Site : 03CH1-HY Condition : PC4K_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432	Left blank
Avg.	 Date: 2018-05-16 Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



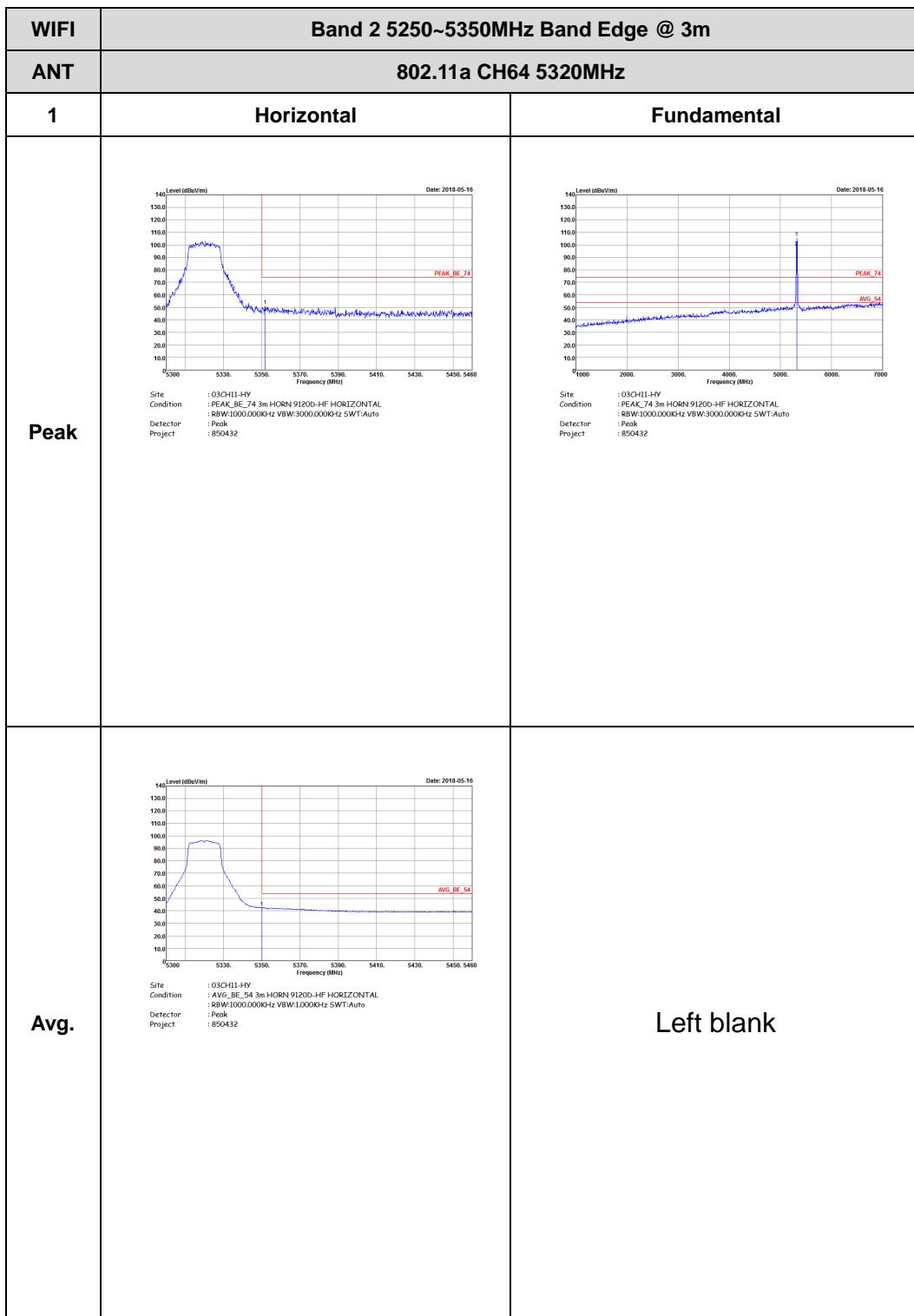


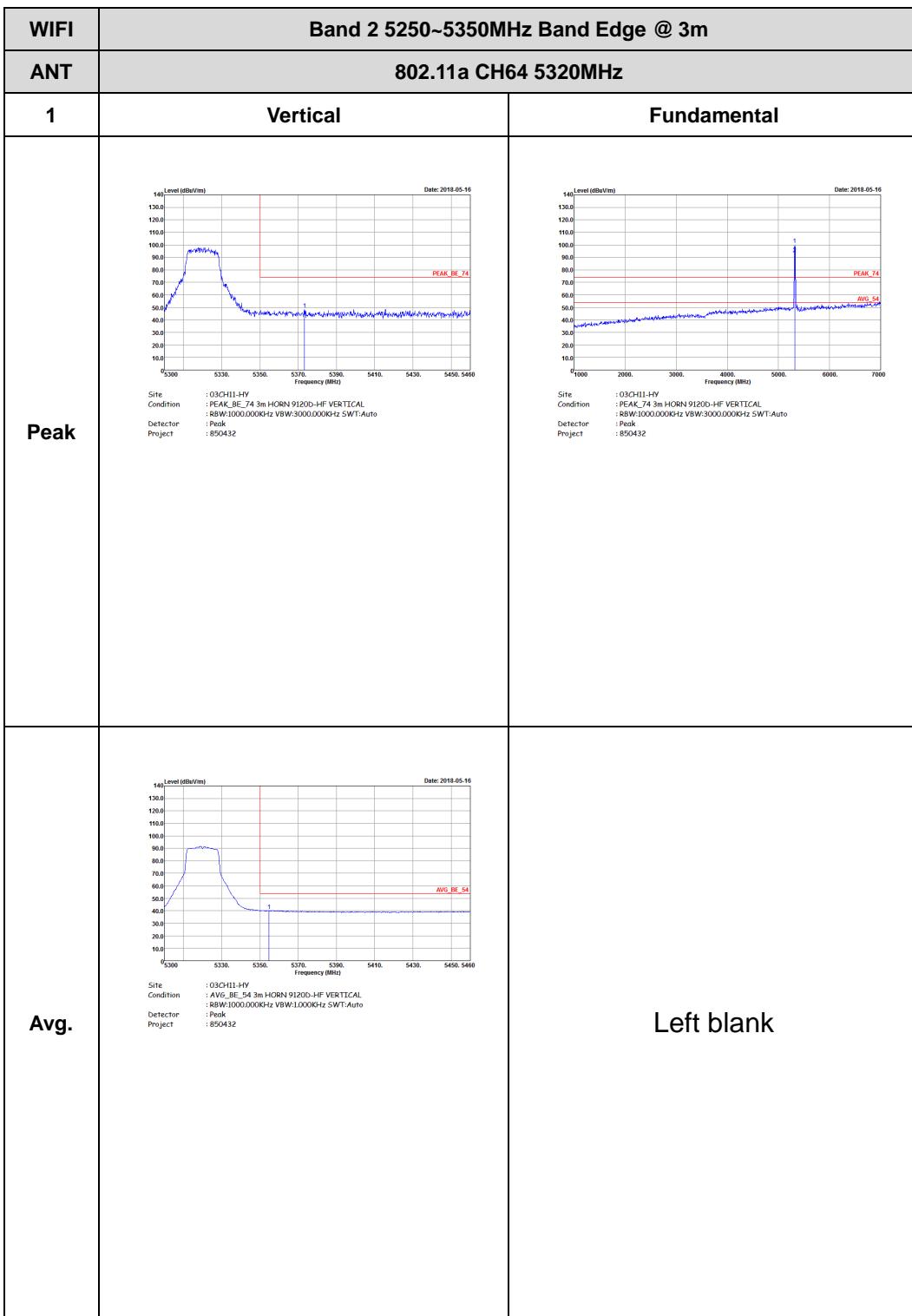
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a single sharp peak labeled 'PEAK_BE_74' at approximately 5290 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5460 MHz. The plot is dated 2018-05-16.</p> <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad peak labeled 'AVG_BE_54' 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 2018-05-16.</p> <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank





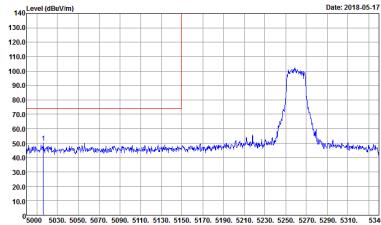
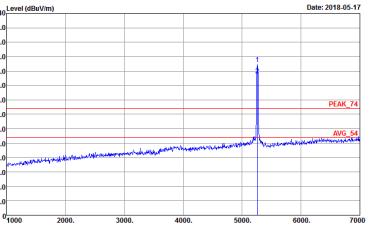
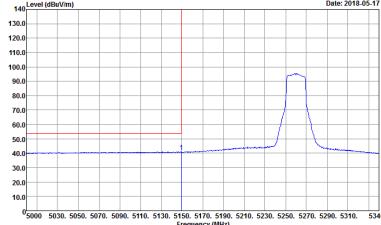
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a single sharp peak labeled 'PEAK_BE_74' at approximately 5290 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5460 MHz. Test parameters: Site: 03CH1-HY, Condition: PCMK_BE_74 3m HORN 91200-HF VERTICAL, Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto, Project: 850432.</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad peak labeled 'AVG_BE_54' 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. Test parameters: Site: 03CH1-HY, Condition: AVG_BE_54 3m HORN 91200-HF VERTICAL, Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto, Project: 850432.</p>	Left blank



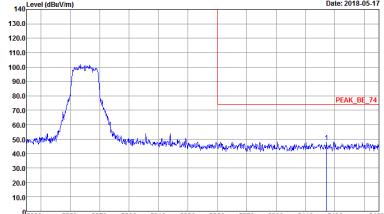
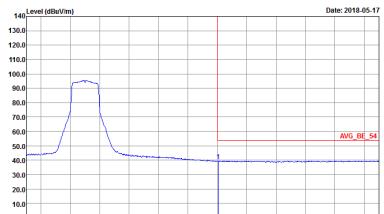


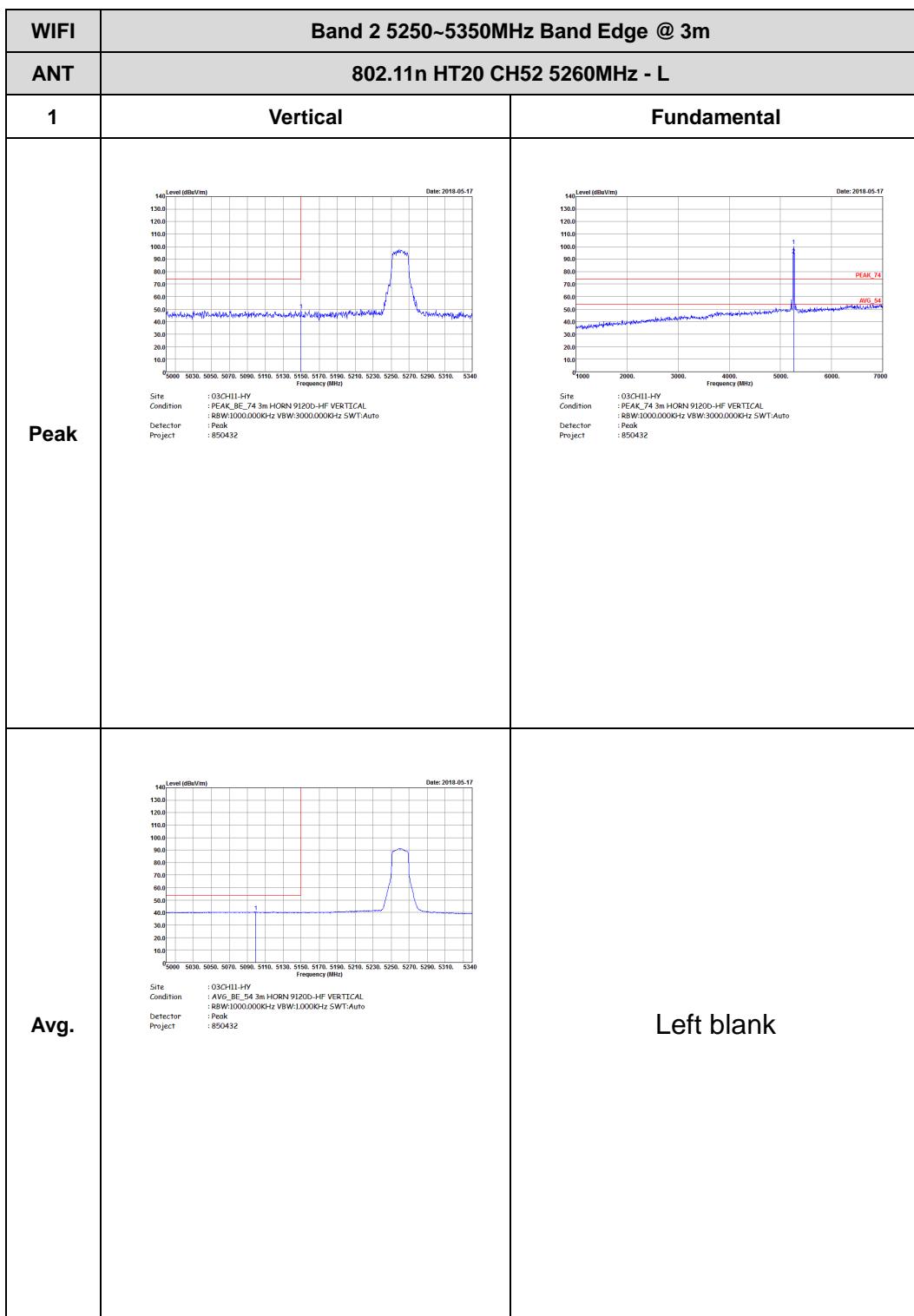


Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

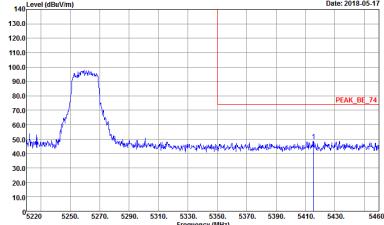
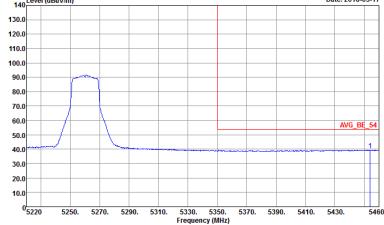
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank

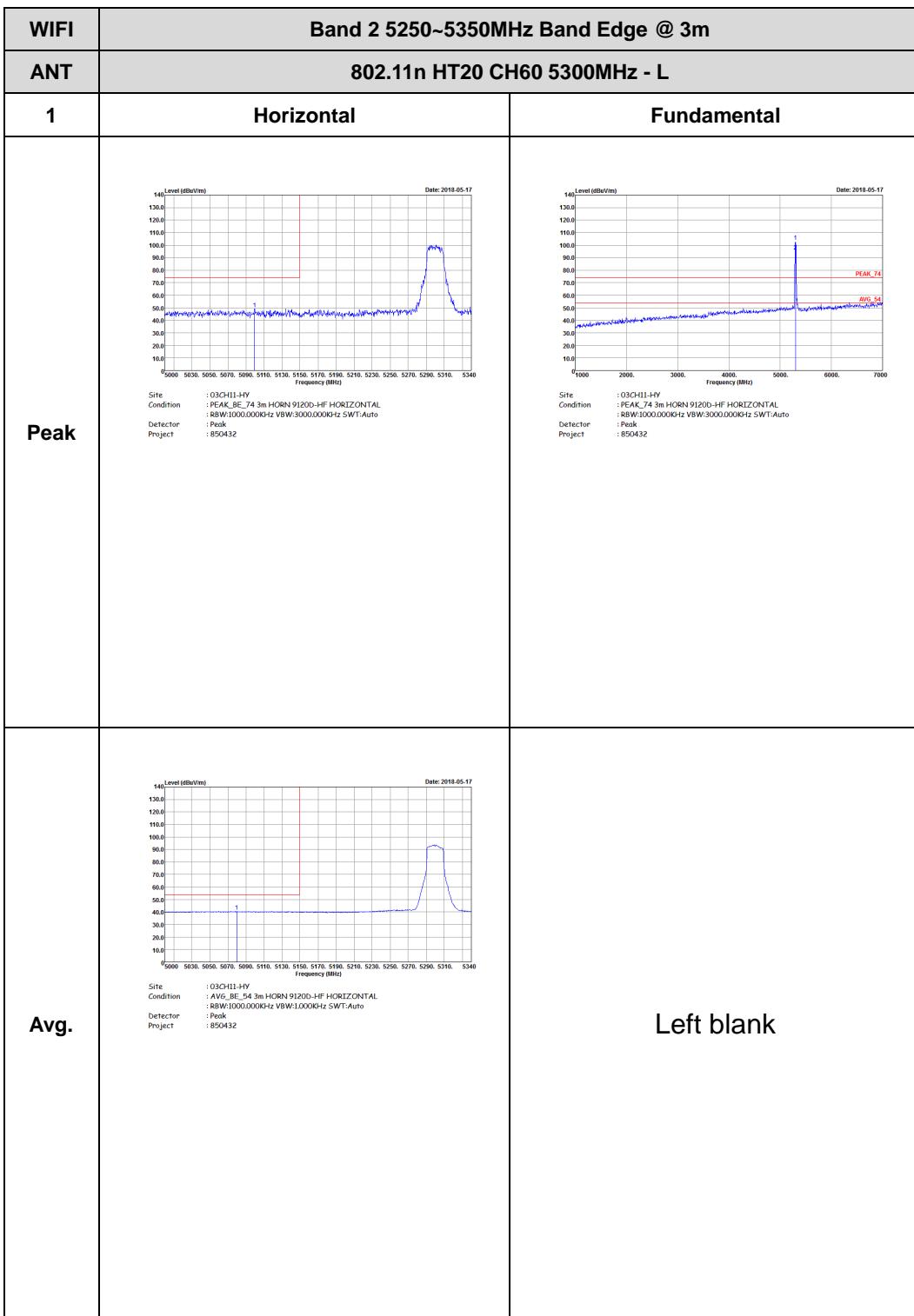


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : 03CH1-HY Condition : PCMC_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Date: 2018-05-17 Site : 03CH11-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 850432	Left blank
Avg.	 Date: 2018-05-17 Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



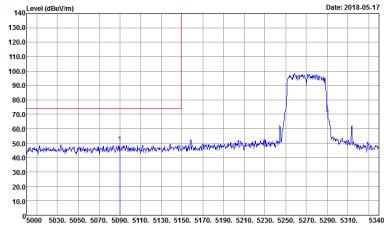
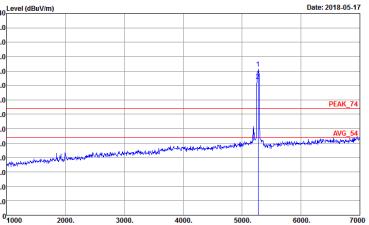
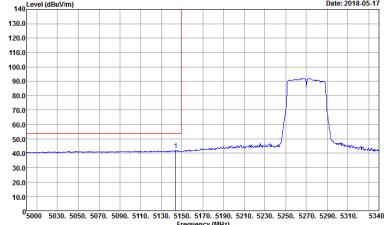
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 850432	Left blank

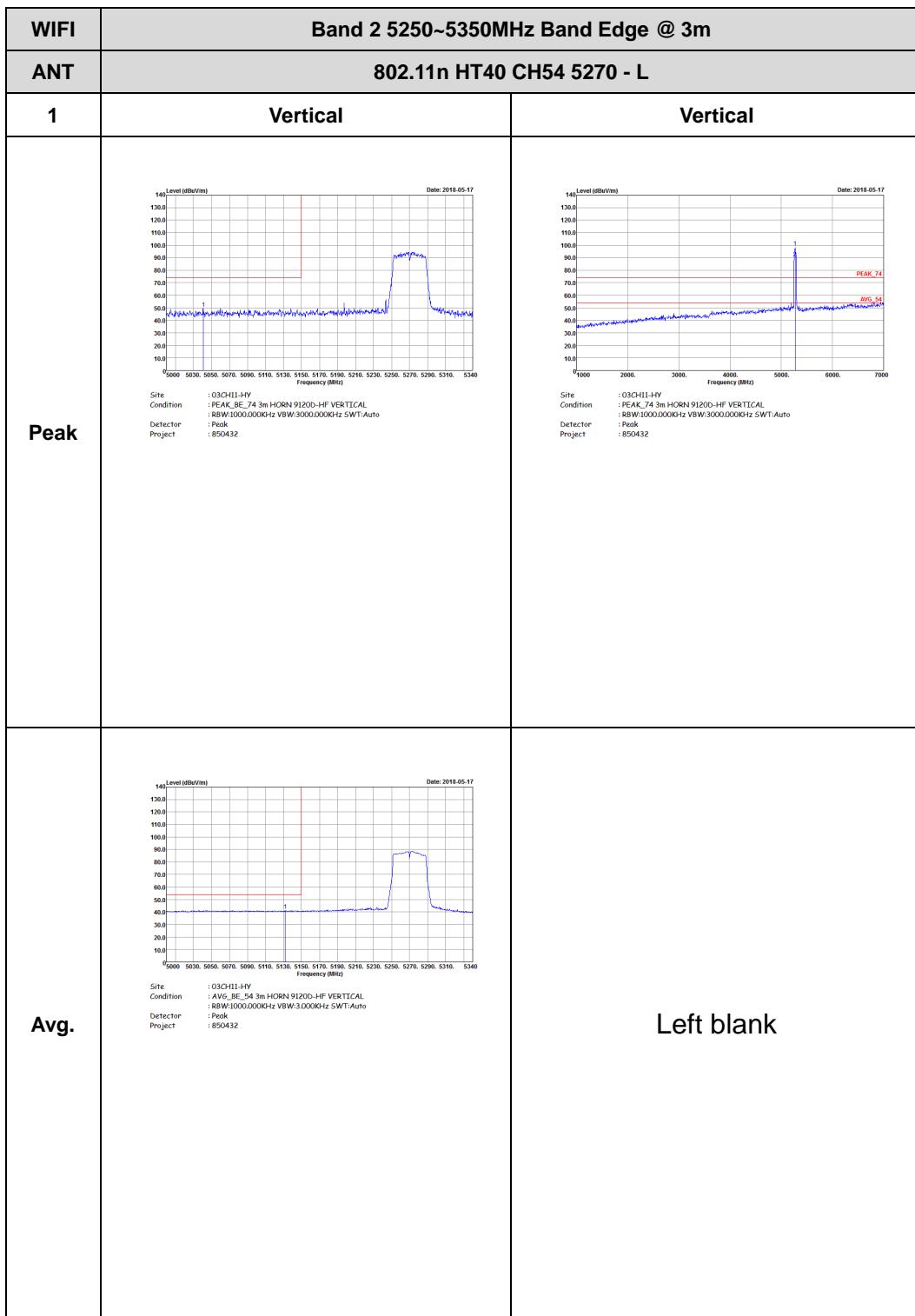


Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PC_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PC_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank





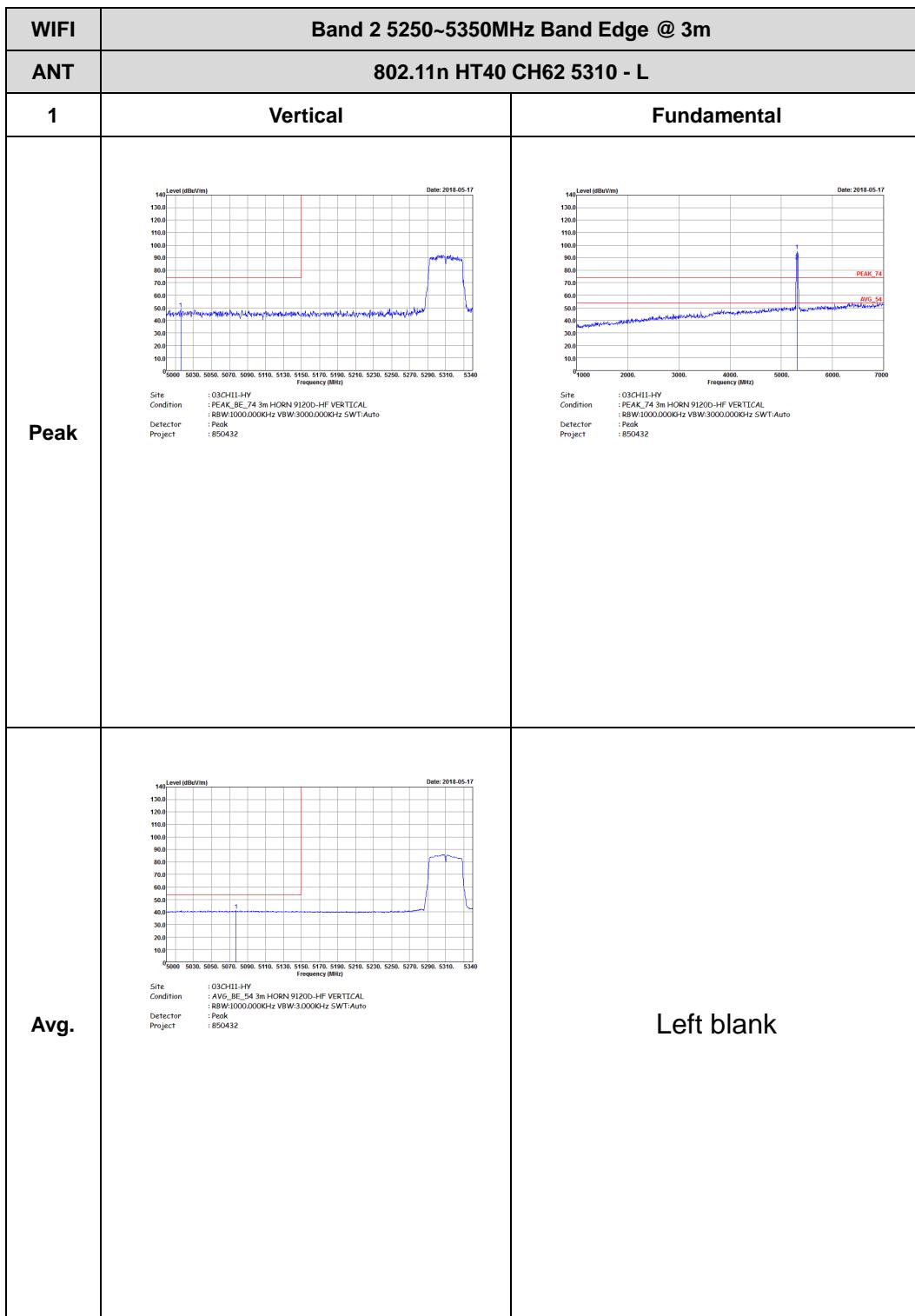
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5270 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m. The x-axis ranges from 5220 to 5460 MHz. Test parameters: Site: 03CH1-HY, Condition: PCMK_BE_74 3m HORN 91200-HF VERTICAL, RBW:1000.000KHz VBW:3.000KHz SWT:Auto, Detector: Peak, Project: 850432.</p>	Left blank
Avg.	<p>Level (dBmV/m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average power 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. Test parameters: Site: 03CH1-HY, Condition: AVG_BE_54 3m HORN 91200-HF VERTICAL, RBW:1000.000KHz VBW:3.000KHz SWT:Auto, Detector: Peak, Project: 850432.</p>	Left blank



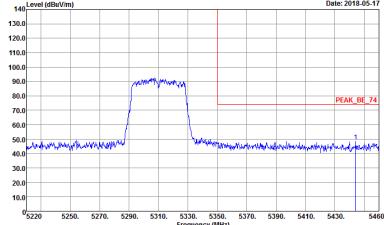
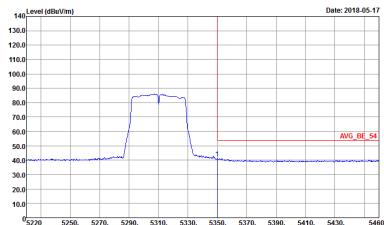
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH1-HY Condition : PCAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432
Avg.	 Site : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432	Left blank
Avg.	 Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank

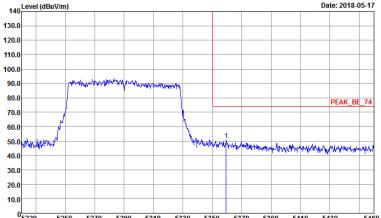
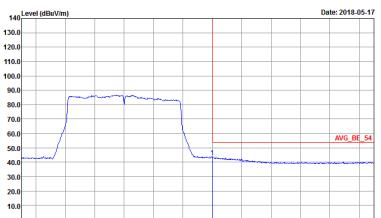


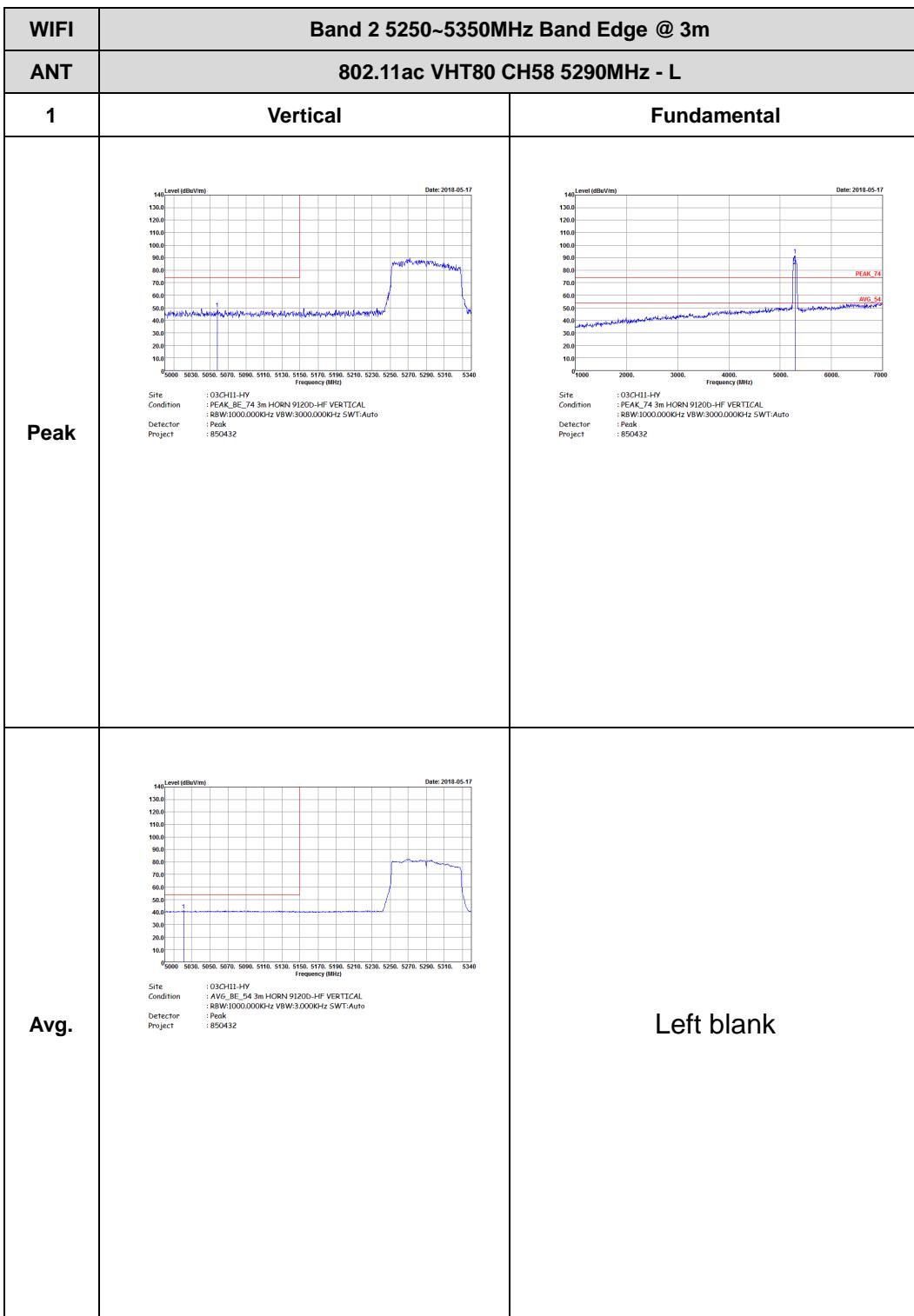
Band 2 5250~5350MHz

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	 Site: 03CH11-HY Condition: PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project: 850432	 Site: 03CH11-HY Condition: PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project: 850432
Avg.	 Site: 03CH11-HY Condition: AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project: 850432	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	 <p>Site : 03CH1-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank



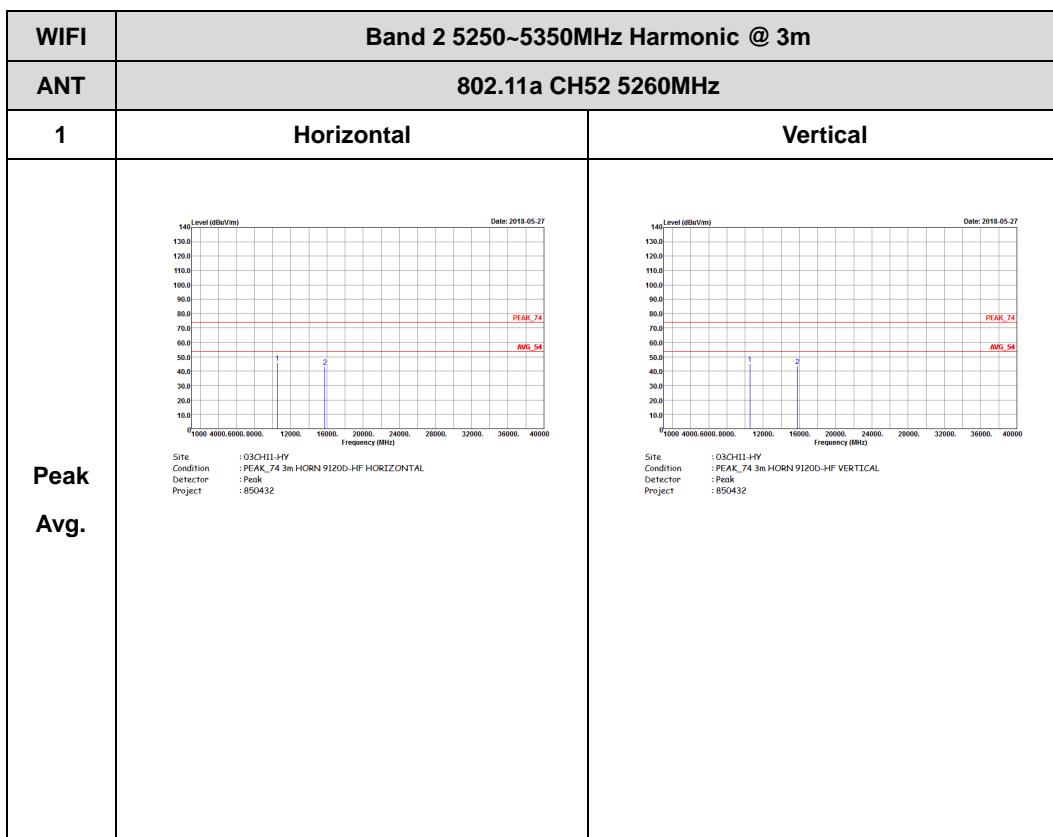


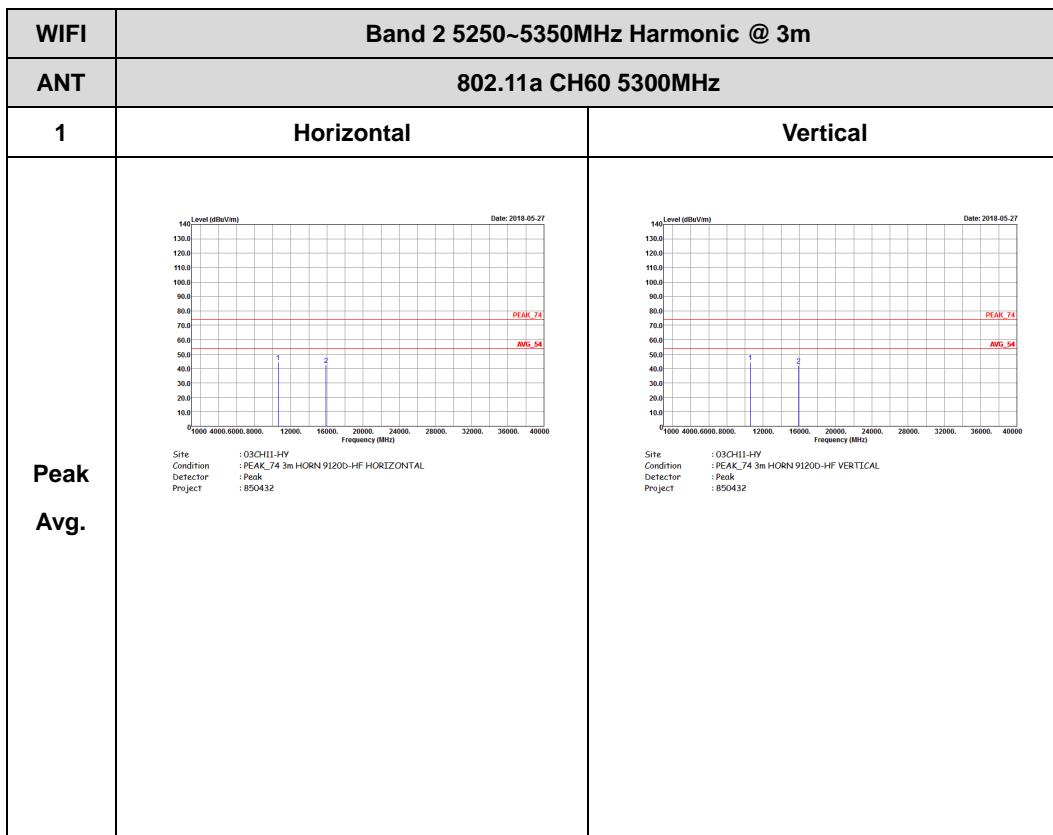
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : 03CH1-HY Condition : PCMK_BE_74 3m HORN 91200-HF VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 850432</p>	Left blank
Avg.	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HORN 91200-HF VERTICAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 850432</p>	Left blank

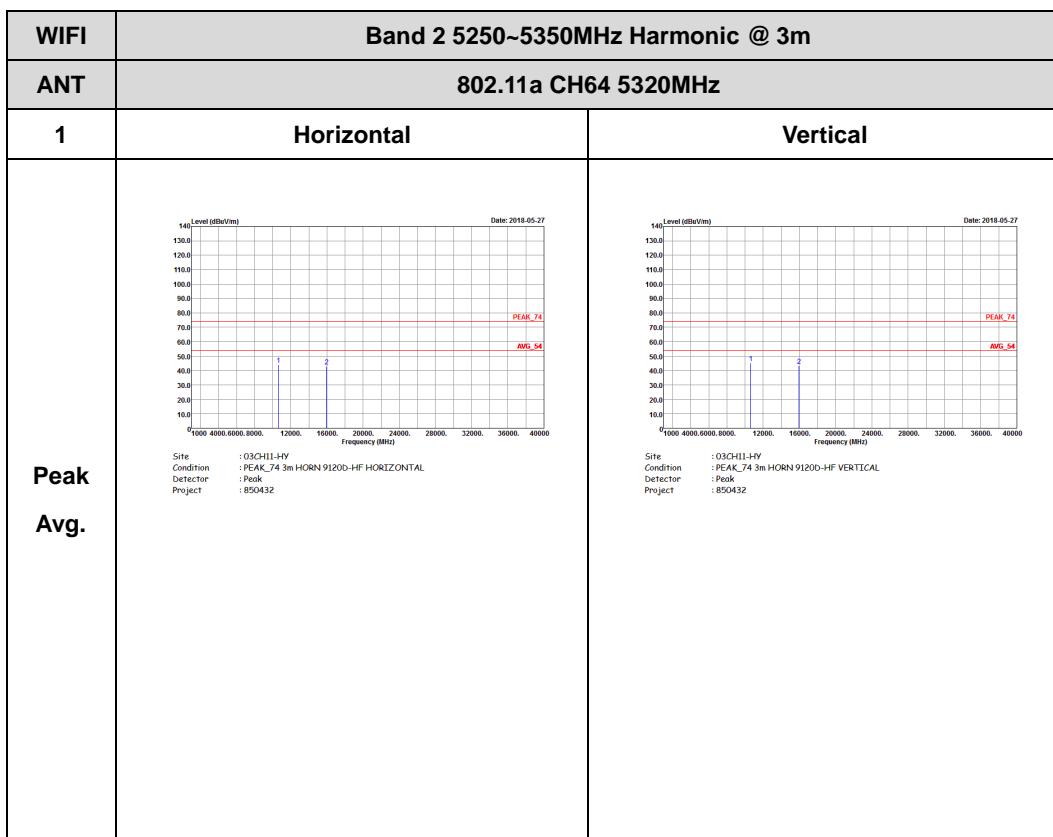


Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

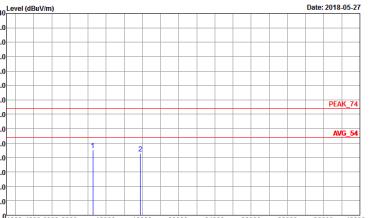


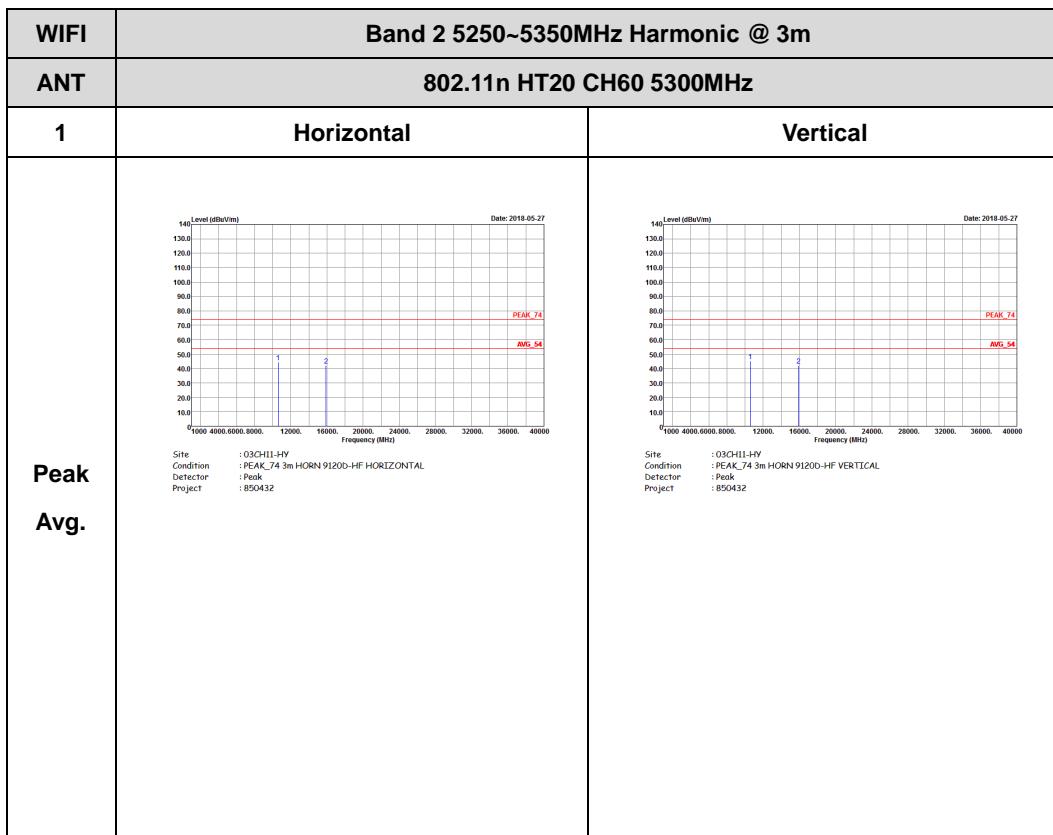


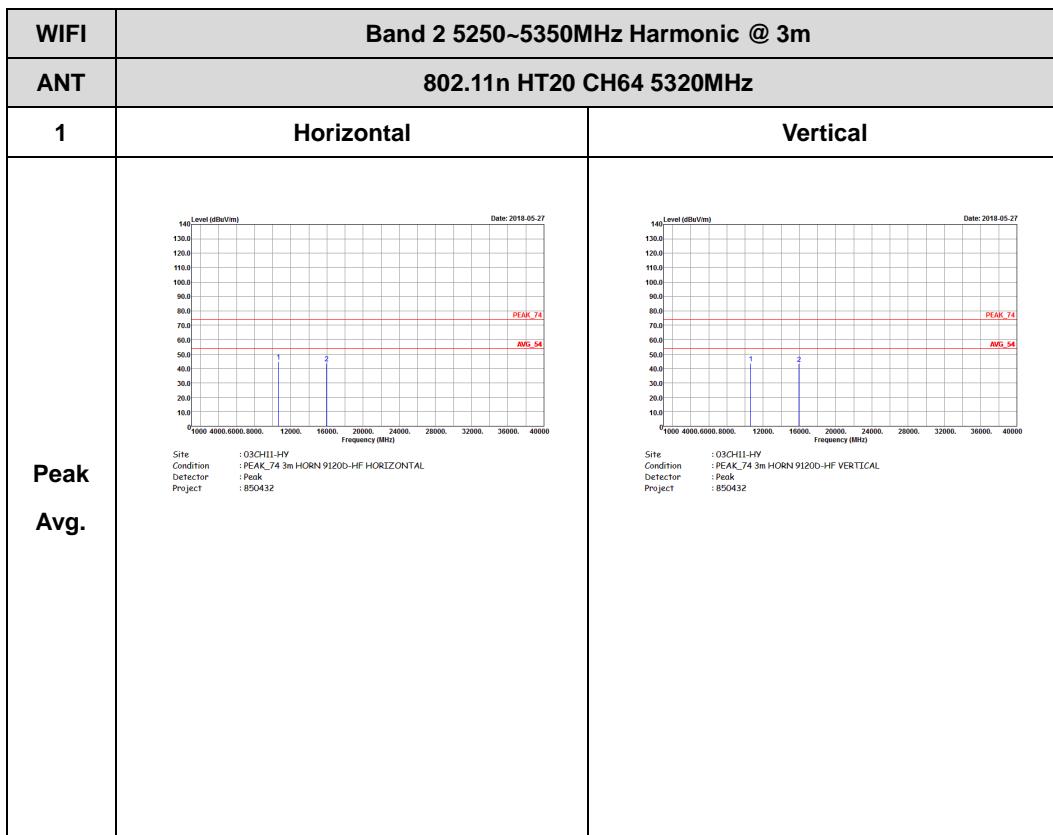




Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

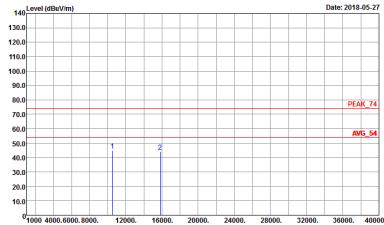
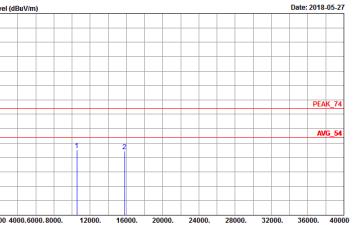
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK-74 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK-74 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		

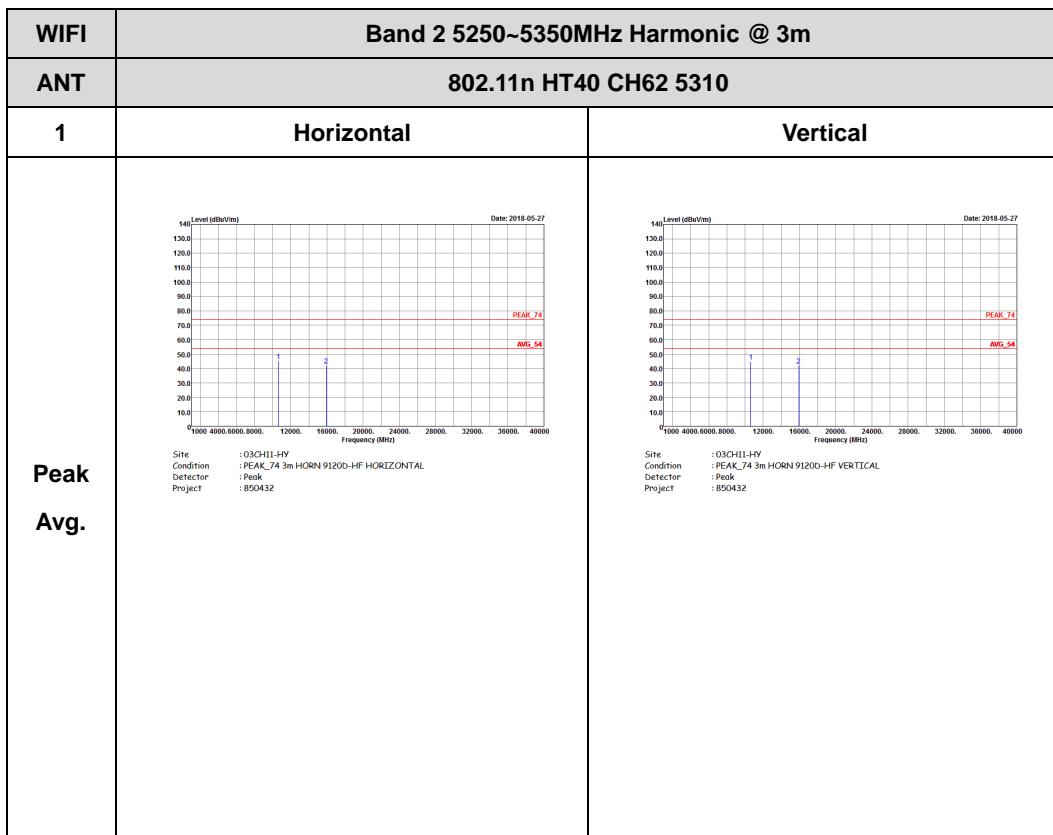






Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

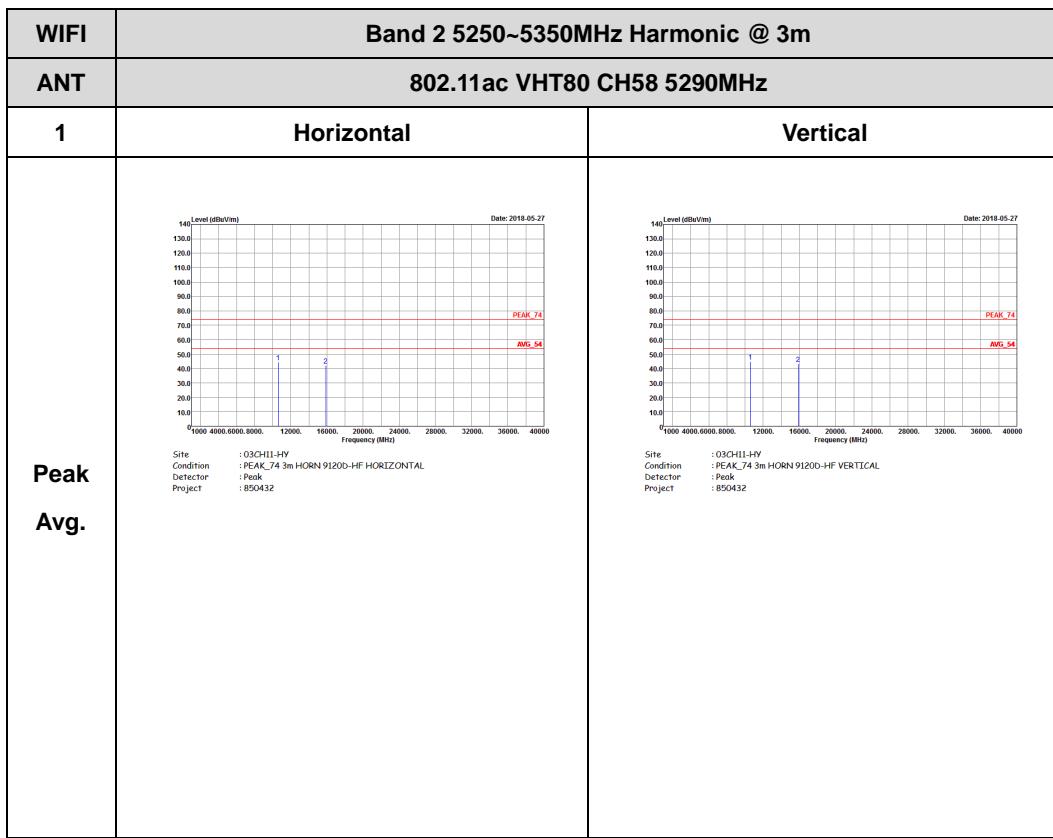
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak	 <p>Level (dBuV/m) Date: 2018-05-27</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Level (dBuV/m) Date: 2018-05-27</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		





Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

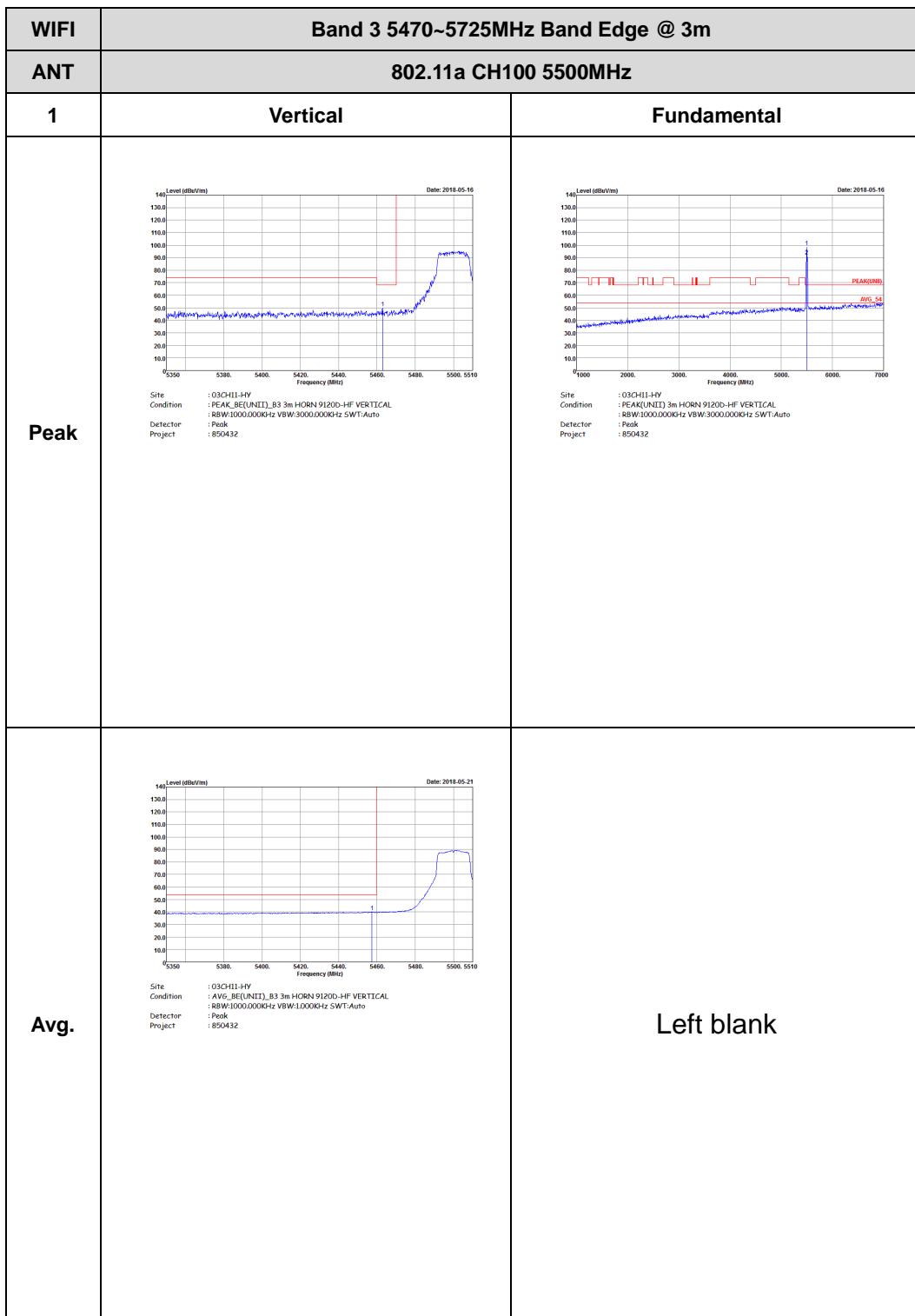


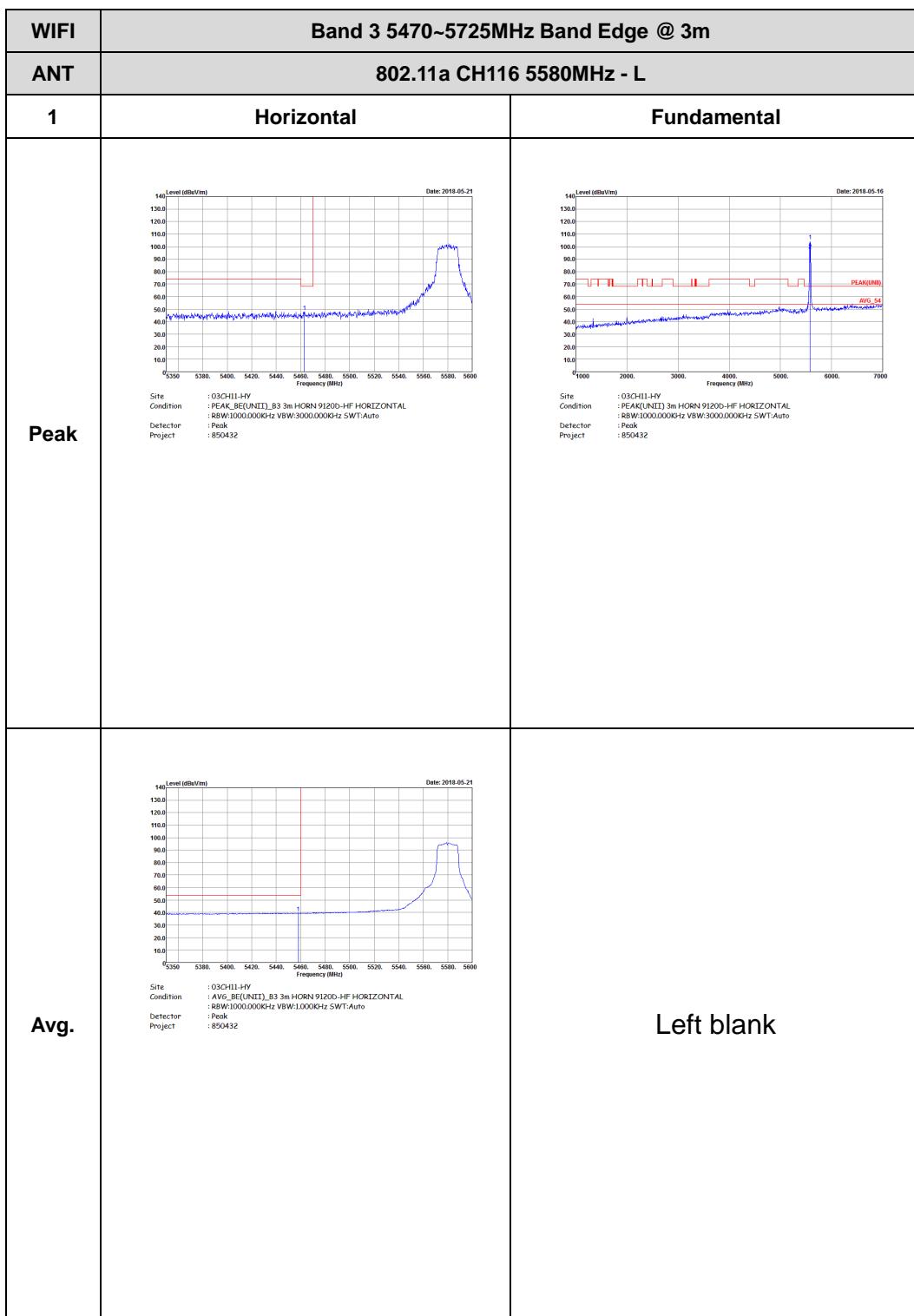


Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

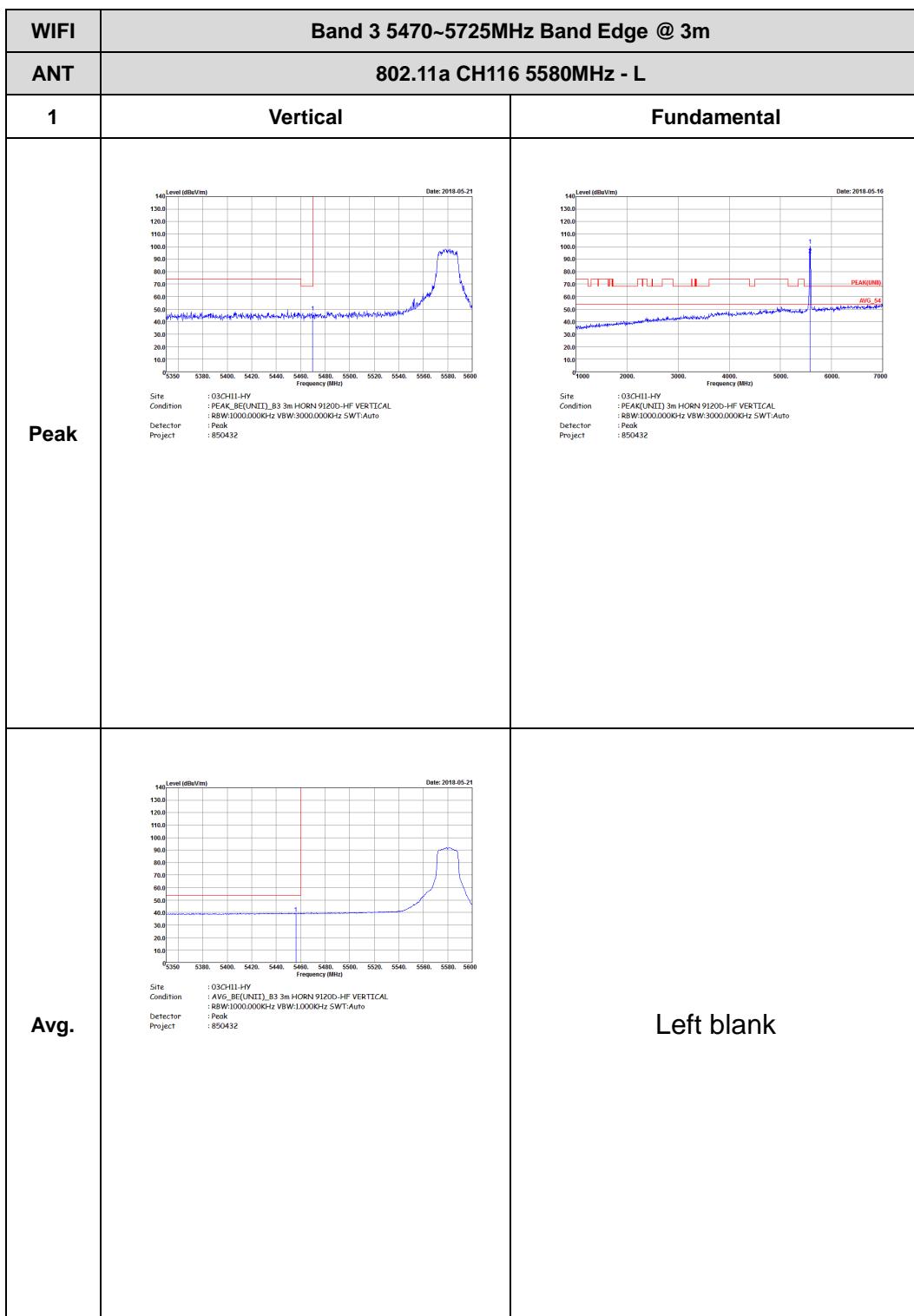
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL. Detector : Peak Project : 850432	 Site : 03CH11-HY Condition : PEAK_BE(UNIT) 3m HORN 9120D-HF HORIZONTAL. Detector : Peak Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL. Detector : Peak Project : 850432	Left blank





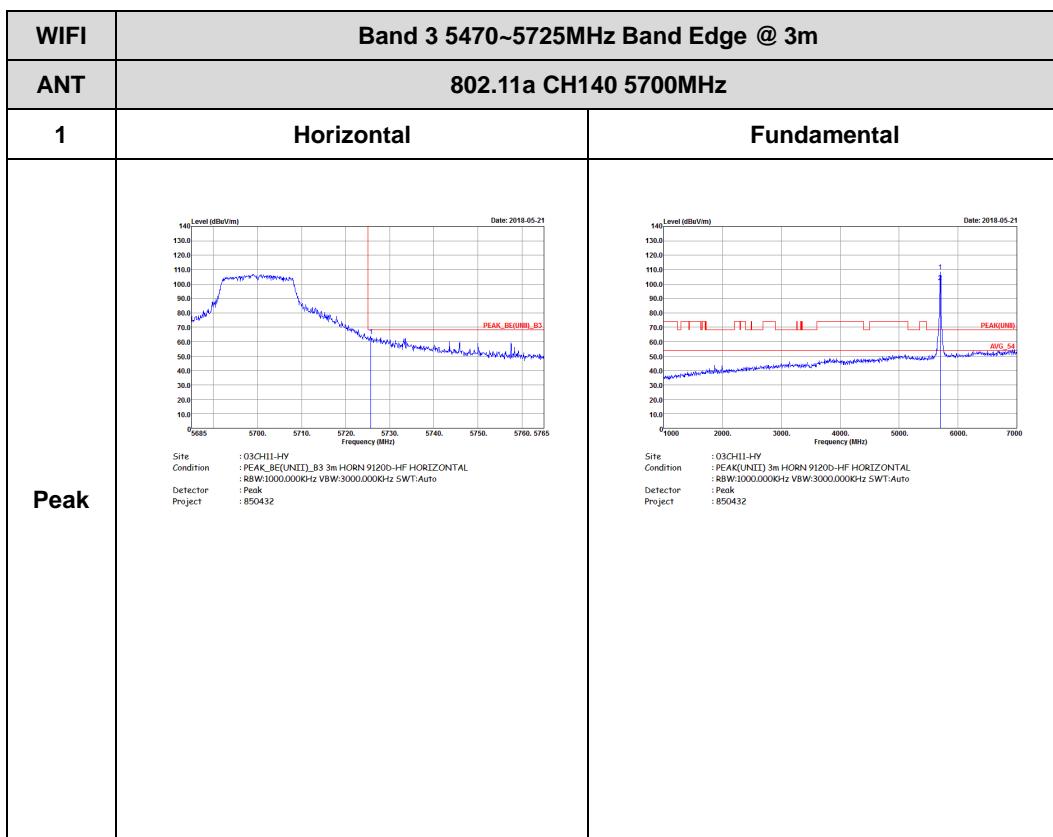


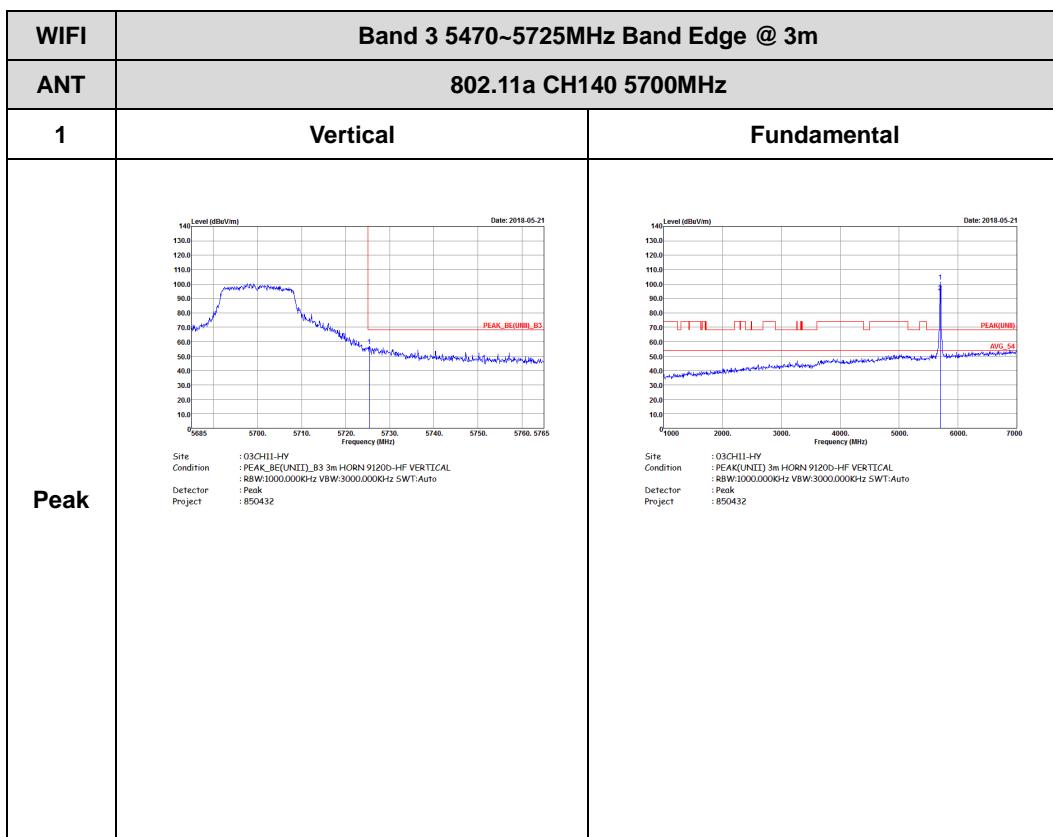
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH1-HY Condition : PCIE_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWF:Auto Project : Peak Project : 850432</p>	Left blank





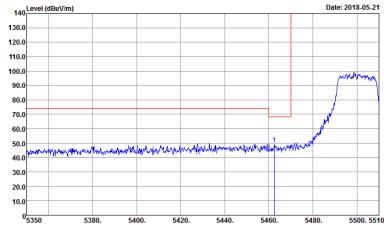
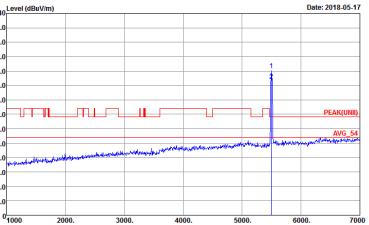
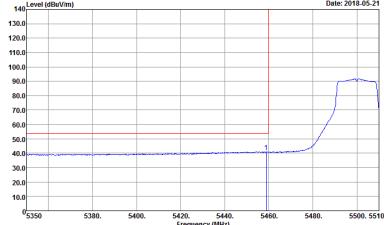
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBm/m)</p> <p>Date: 2018-05-16</p> <p>Frequency (MHz)</p> <p>Site : 03-CH1-HY Condition : AVG_1E0UNIT1_83 3m HORN P1200-HF HORIZONTAL Detector : 88MHz-3000.000KHz VBW:1.000KHz SWL:Auto Project : Peak Project : 850432</p>	Left blank

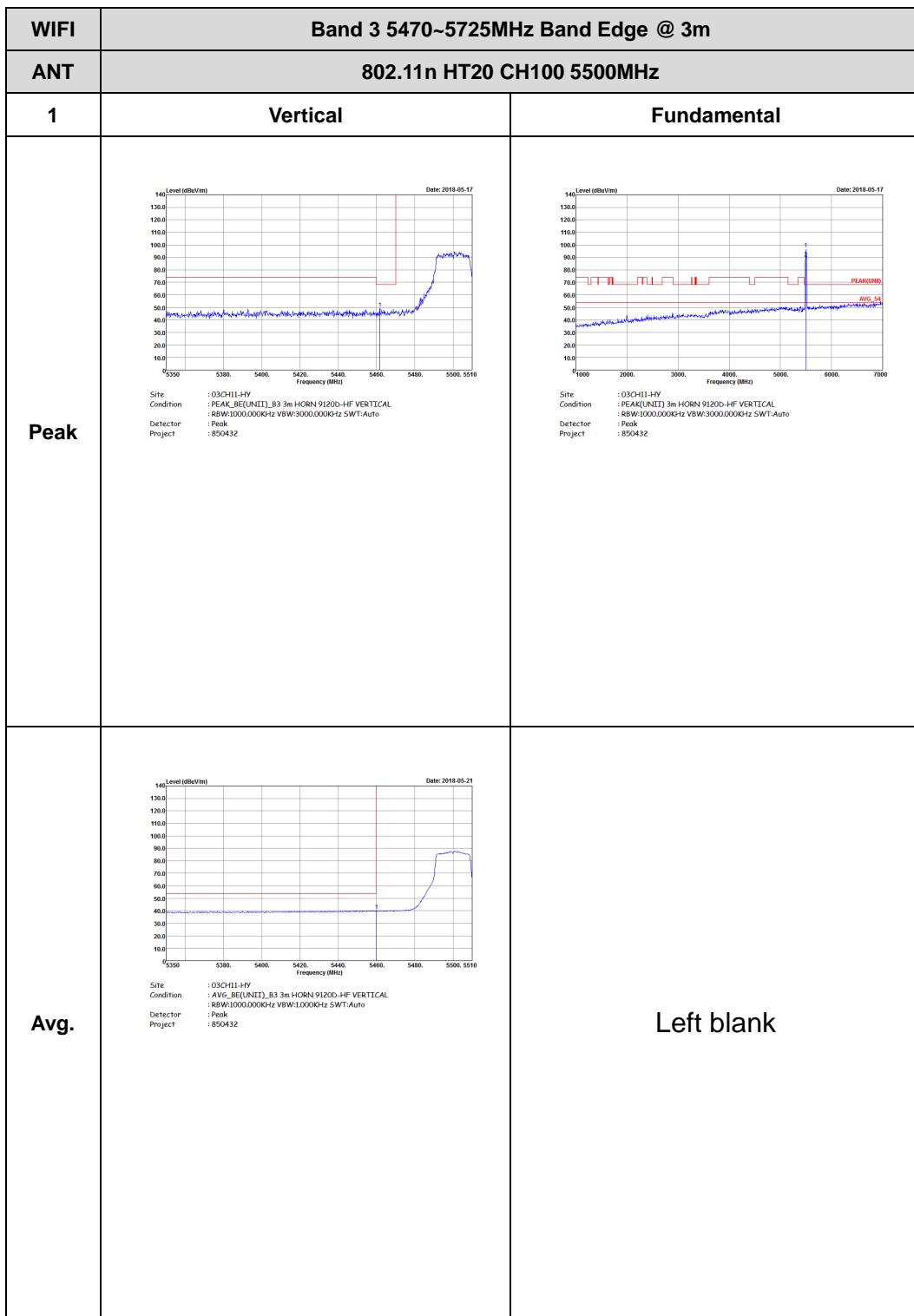






Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PC_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PC_BE(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank

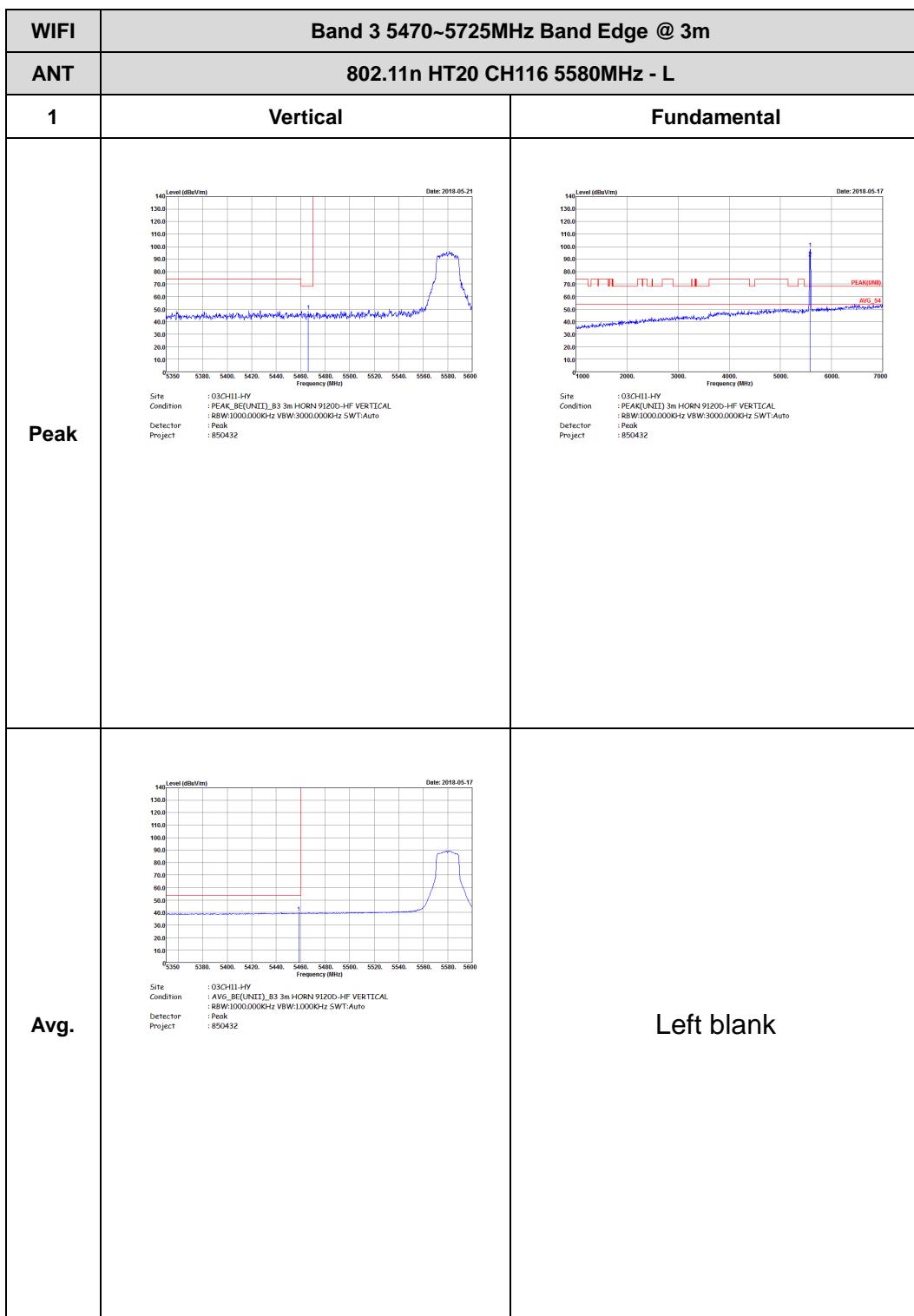




WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH1-HY Condition : PCAK_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432	 Site : 03CH1-HY Condition : PCAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH1-HY Condition : AVG_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 850432	Left blank

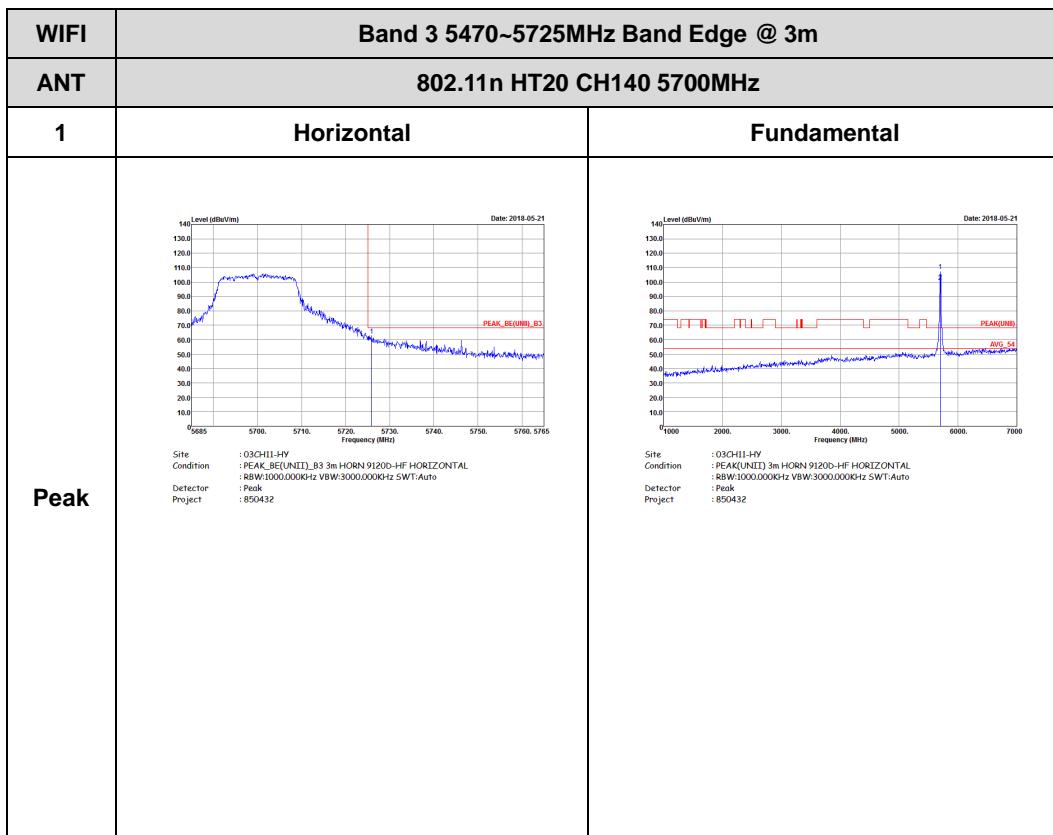


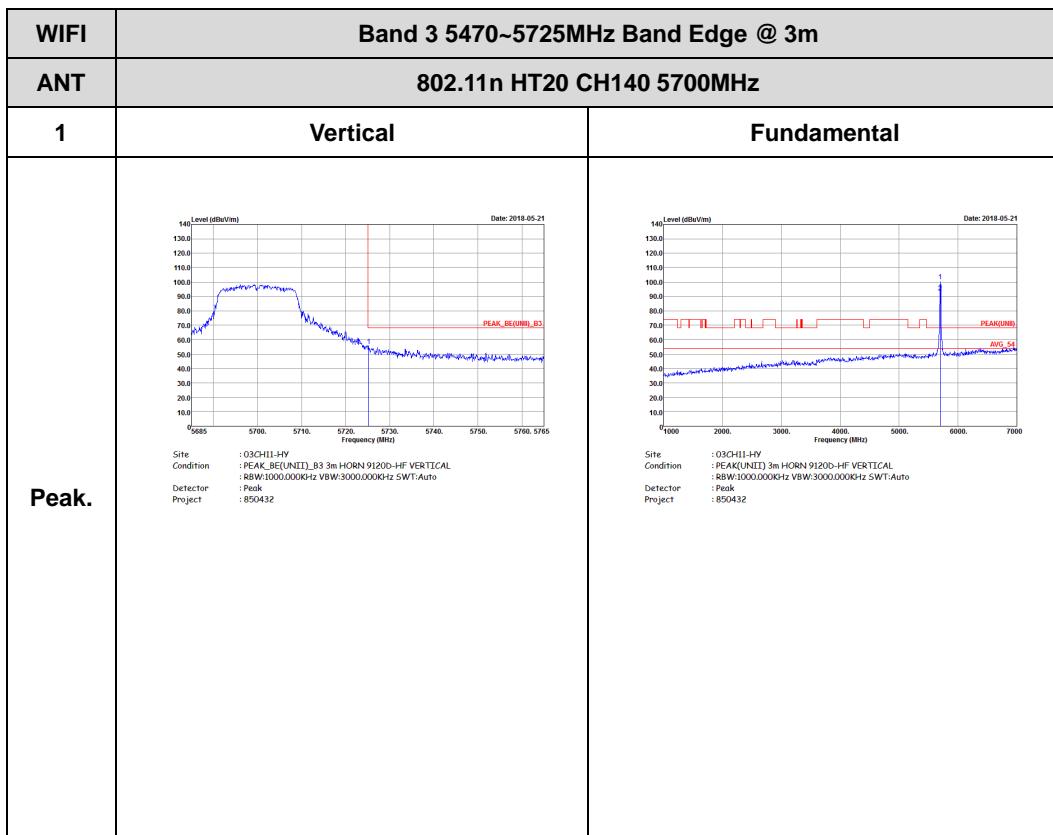
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>PEAK_BE(0dB)_B3</p> <p>Site : 03CH1-HY Condition : PCIE_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWF:Auto Project : Peak : 850432</p>	Left blank





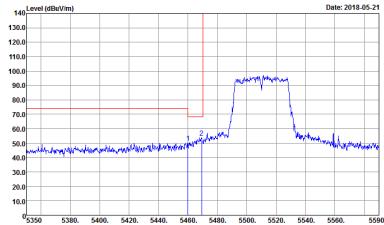
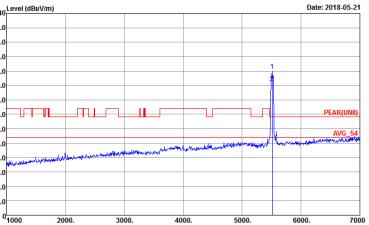
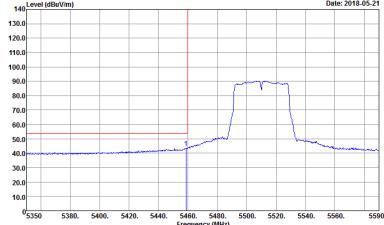
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Date: 2018-05-17</p> <p>Frequency (MHz)</p> <p>Site : 03-CH1-HY Condition : AVG, B(EQUIN), B3 Detector : 88MHz-3000.000KHz VBW:1.000KHz SWL:Auto Project : Peak Project : 850432</p>	Left blank





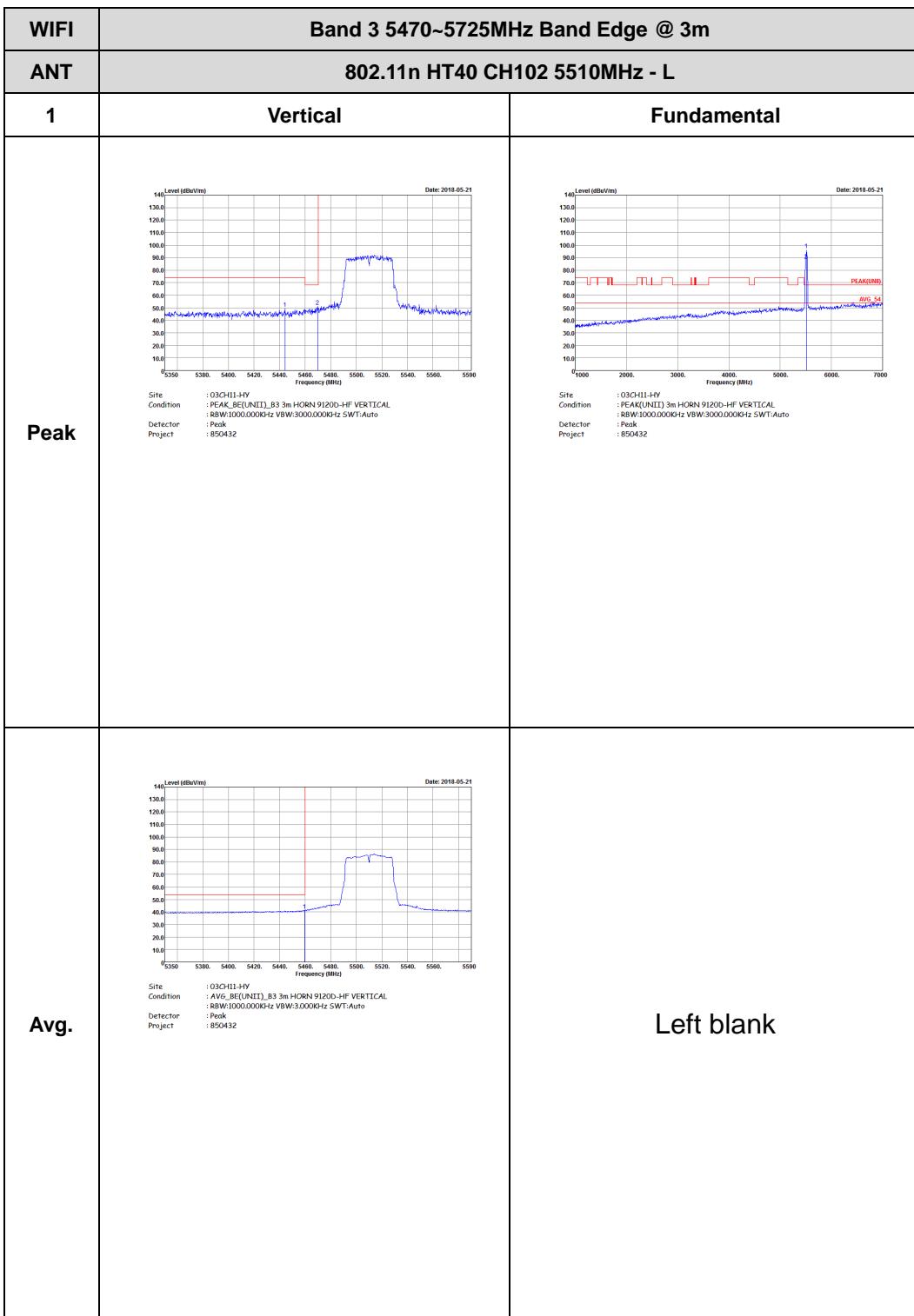


Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PC-BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PC-BE(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432</p>	Left blank

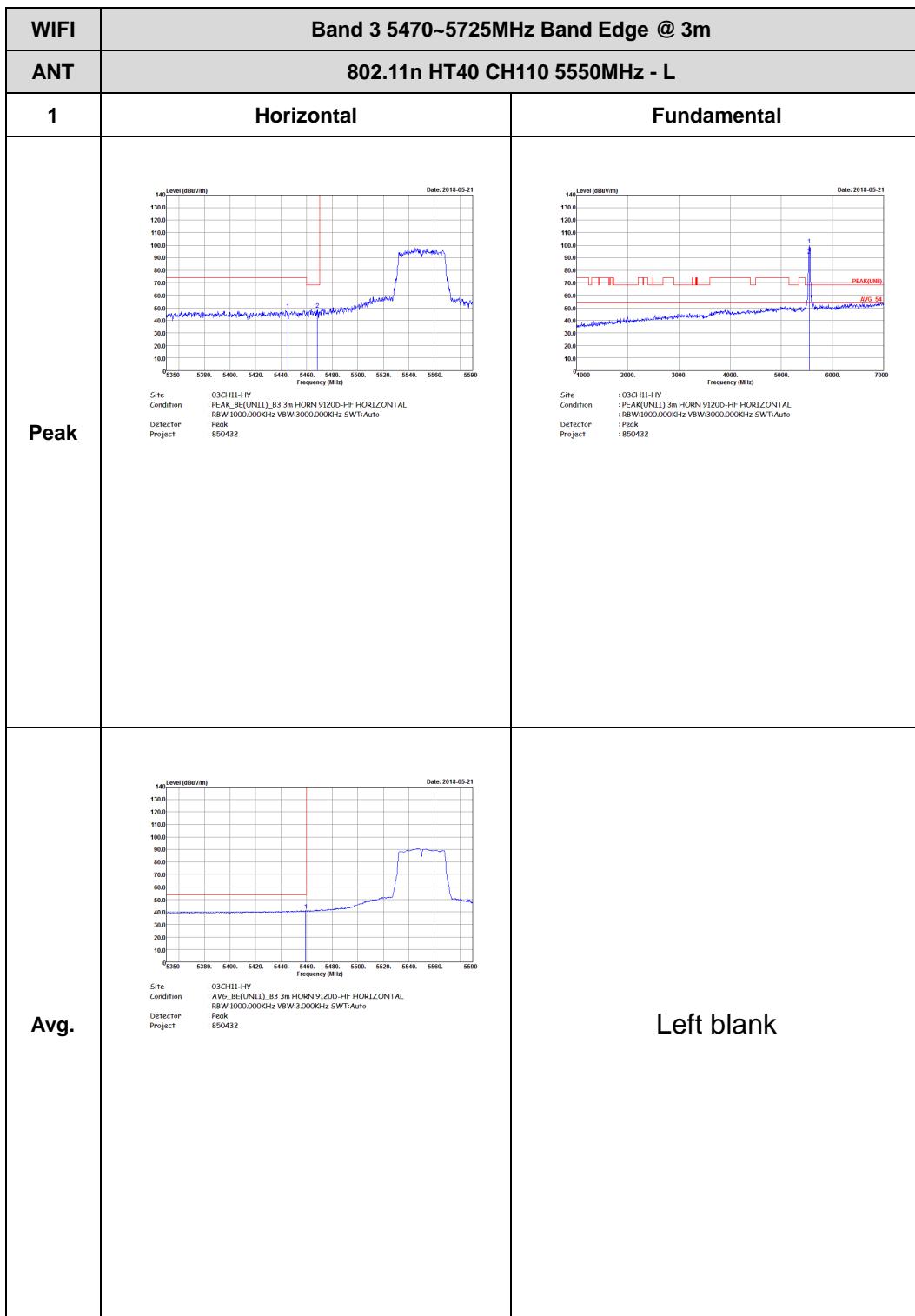


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 034H1-HY Condition : PCMC-BE(UNID), B3 3m HORN 91200-HF HORIZONTAL LBW:1000.000KHz VBW:3000.000Hz SWF:Auto Detector : Peak Project : 850432</p>	Left blank



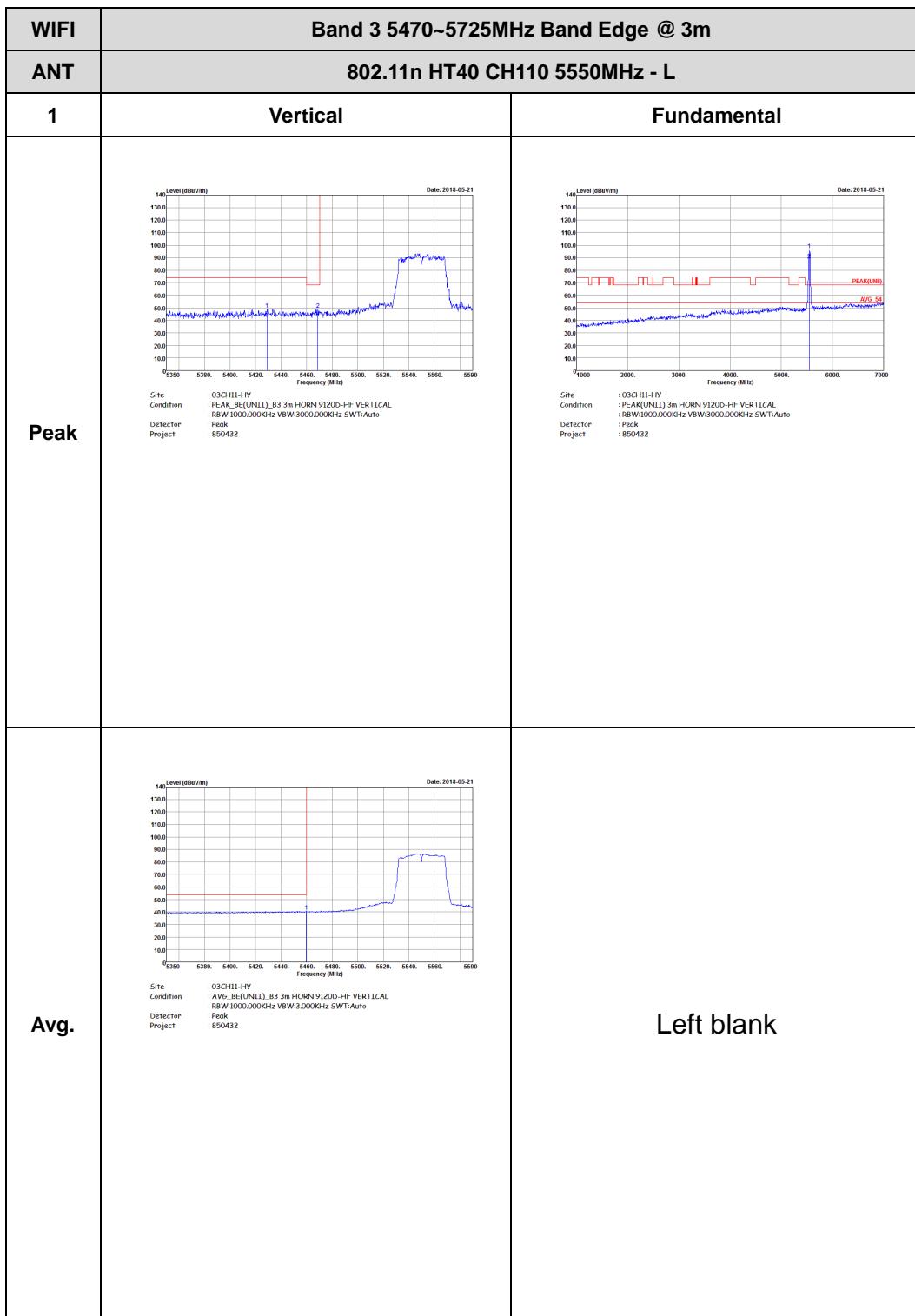


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03CH1-HY Condition : FCC-BE(UNIT), B3 3m HORN 91200-HF VERTICAL LBW:1000.000KHz VBW:3000.000Hz SWF:Auto Detector : Peak Project : 850432</p>	Left blank



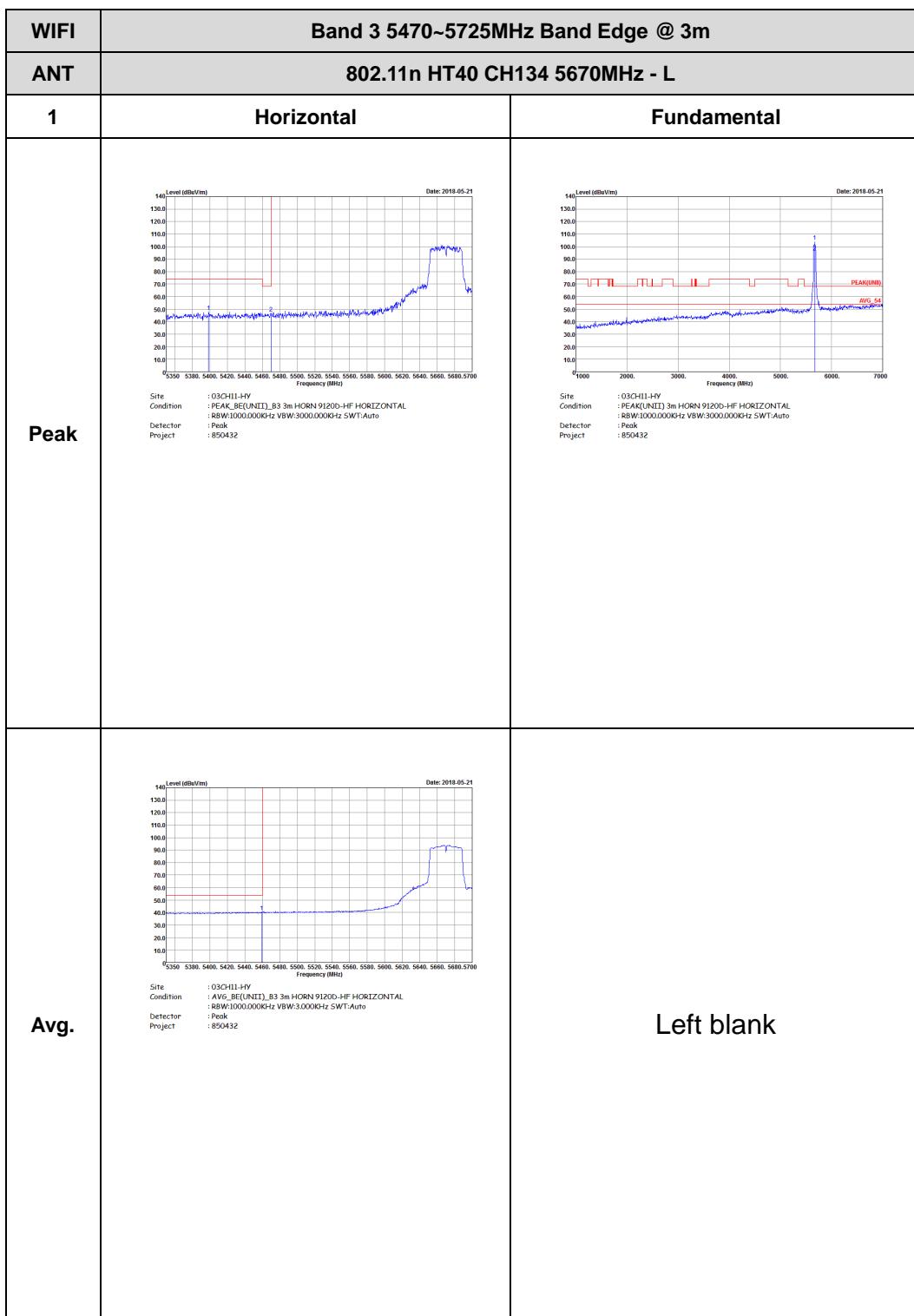


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03-H1-HY Condition : PCIE_BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 850432</p>	Left blank



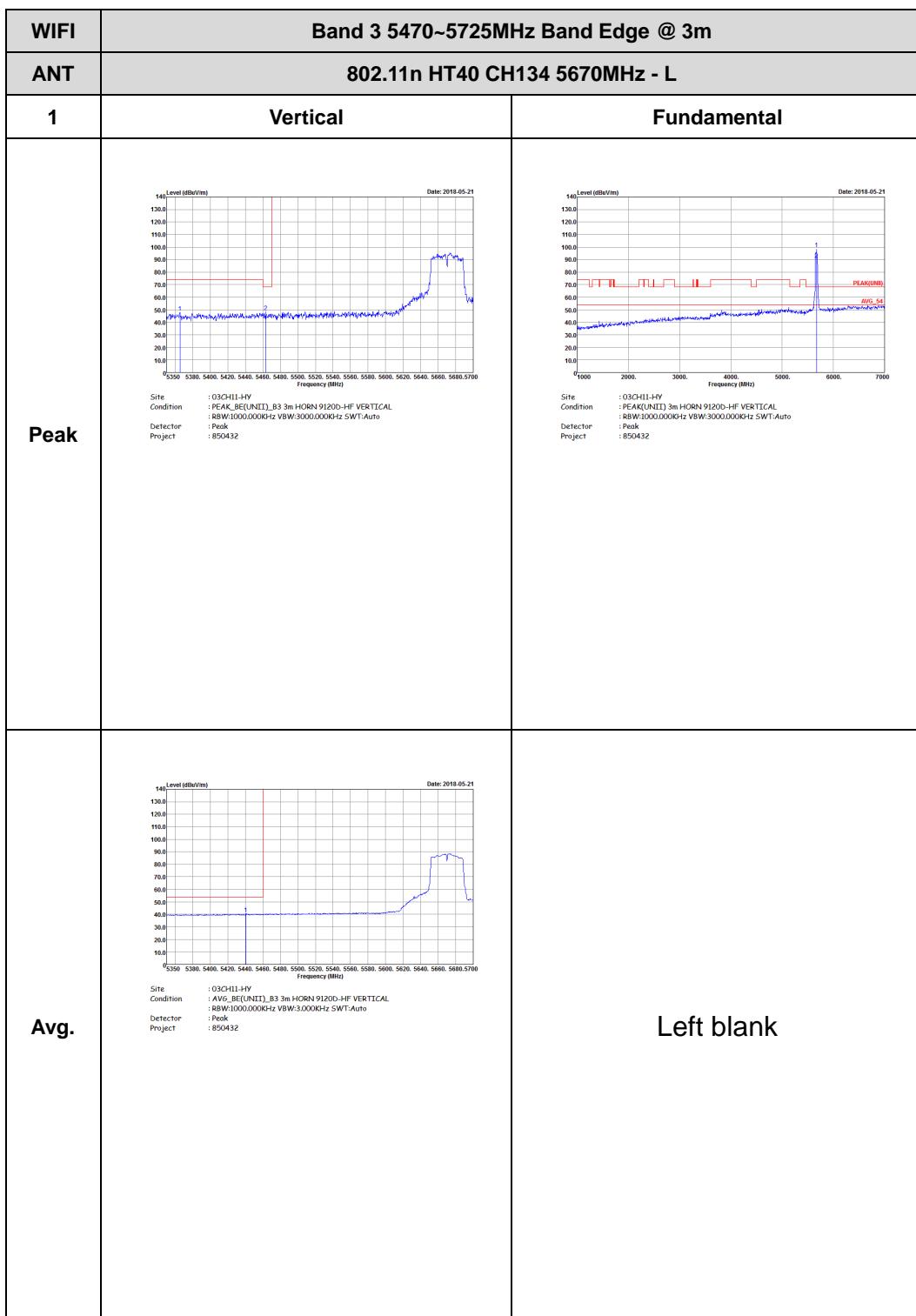


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03CH1-HY Condition : FCC-BE(UNIT), B3 3m HORN 91200-HF VERTICAL LBW:1000.000KHz VBW:3000.000Hz SWF:Auto Detector : Peak Project : 850432</p>	Left blank

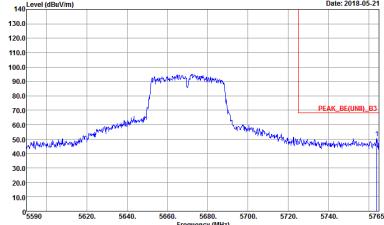




WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Frequency (MHz)</p> <p>Date: 2018-05-21</p> <p>Site : 03-CH1-HY Condition : PCMK_BE(UNLTD), B3 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 850432</p>	Left blank





WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03-CH1-HY Condition : FCC-BE(UNIT), B3 3m HORN 91200-HF VERTICAL Detector : 188W1000.000KHz VBW:3000.000KHz SWR:Auto Project : Peak Project : 850432</p> <p>Left blank</p>	



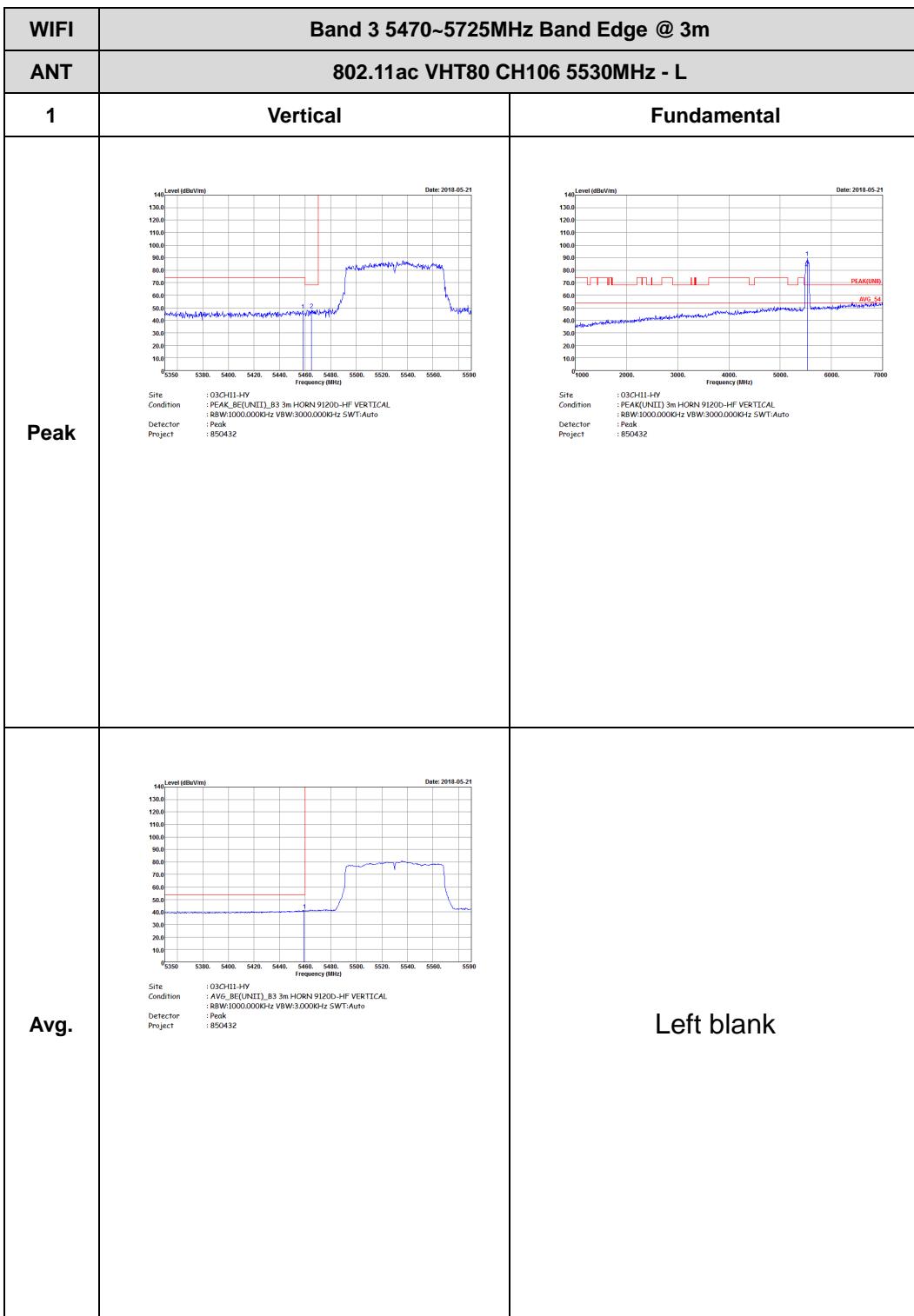
Band 3 5470~5725MHz

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	 Site : 03CH11-HY Condition : PC_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	 Site : 03CH11-HY Condition : PC_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT), B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 850432	Left blank

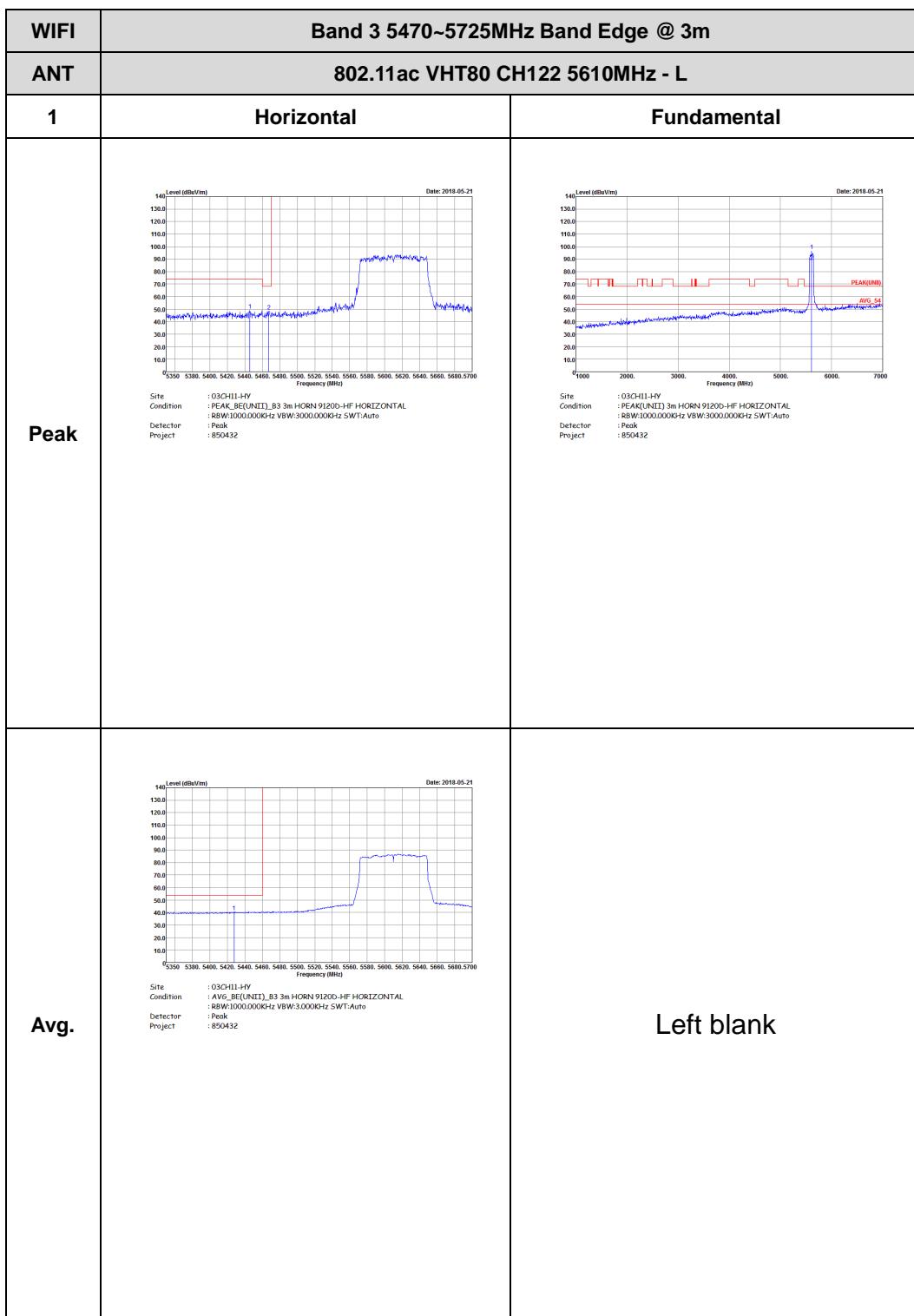


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 034H1-HY Condition : FCC-BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000Hz SWF:Auto Project : Peak Project : 850432</p>	Left blank



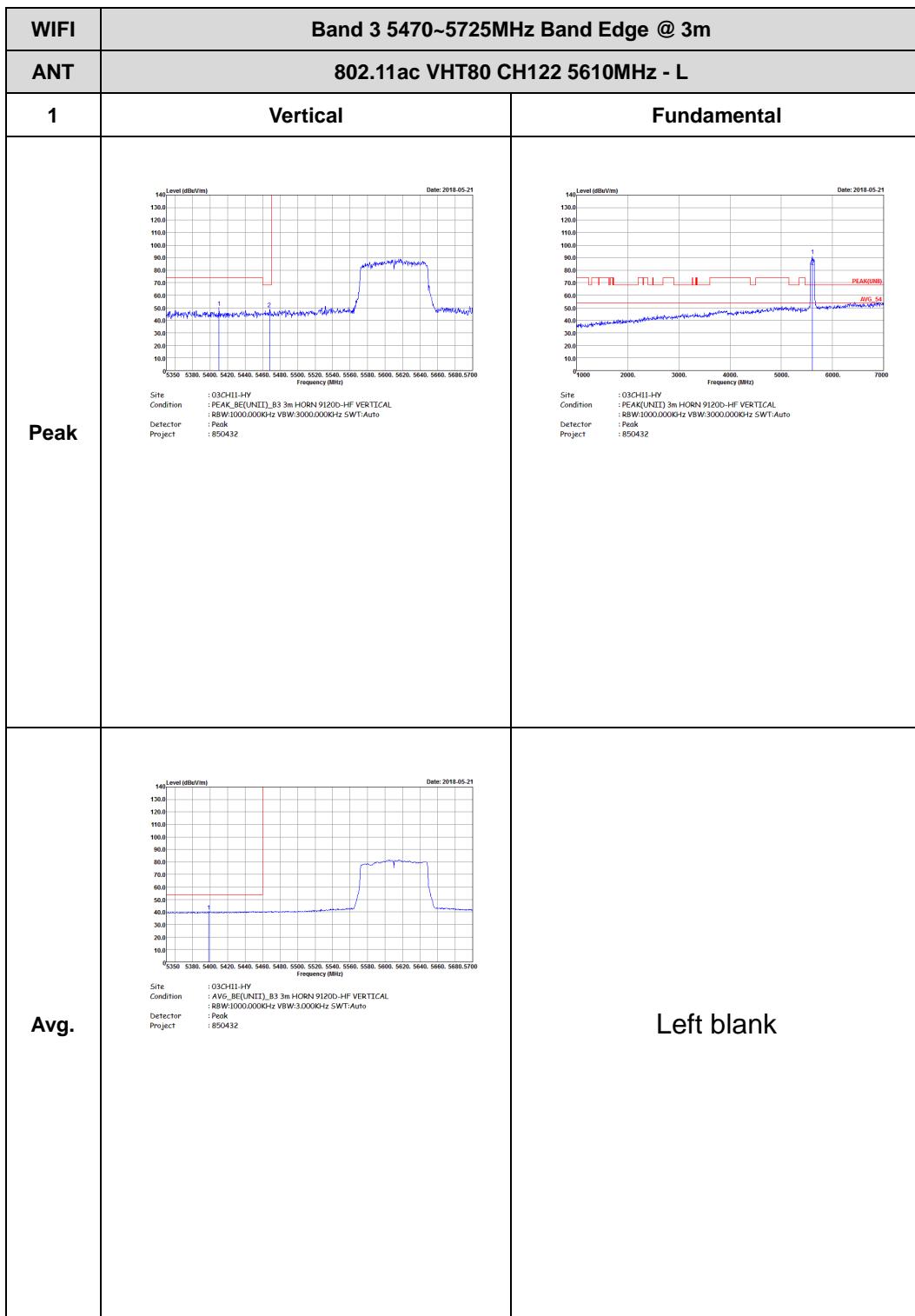


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03-H1-HY Condition : FCC-BE(UNIT), B3 3m HORN 91200-HF VERTICAL LBW:1000.000KHz VBW:3000.000Hz SWF:Auto Detector : Peak Project : 850432</p>	Left blank





WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>PEAK_BE(0dB)_B3</p> <p>Site : 03-H1-HY Condition : PCAC-BE(UNIT), B3 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 850432</p>	Left blank



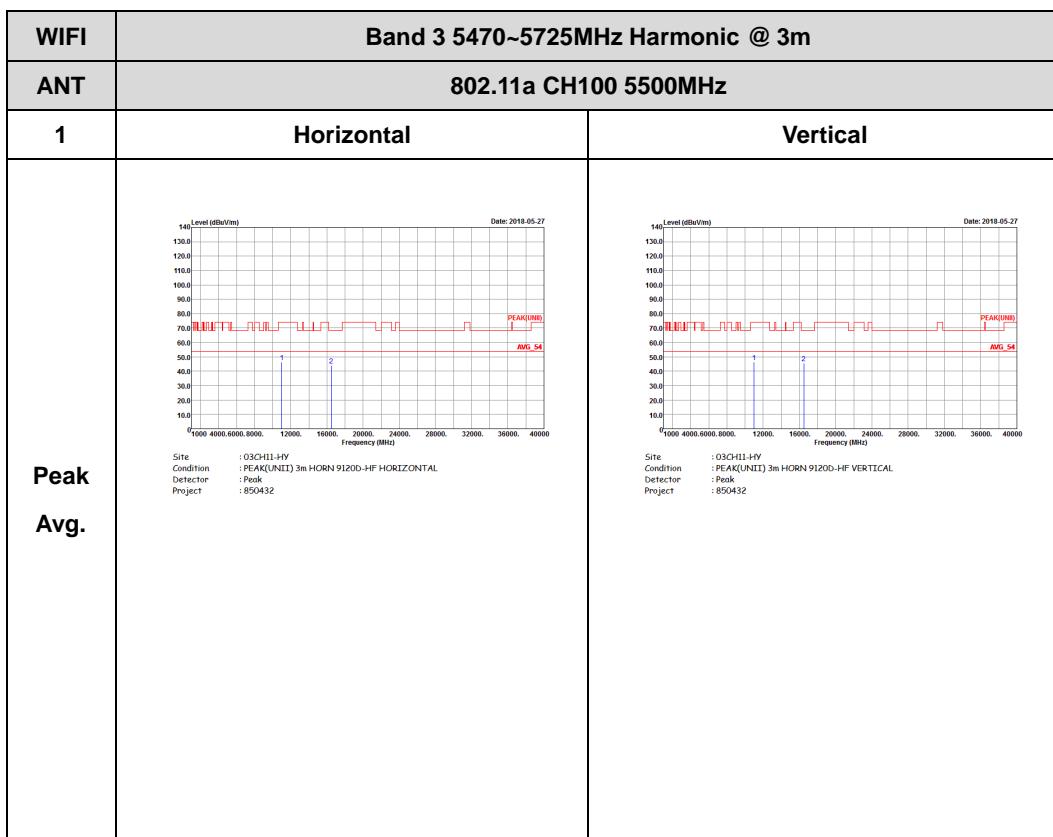


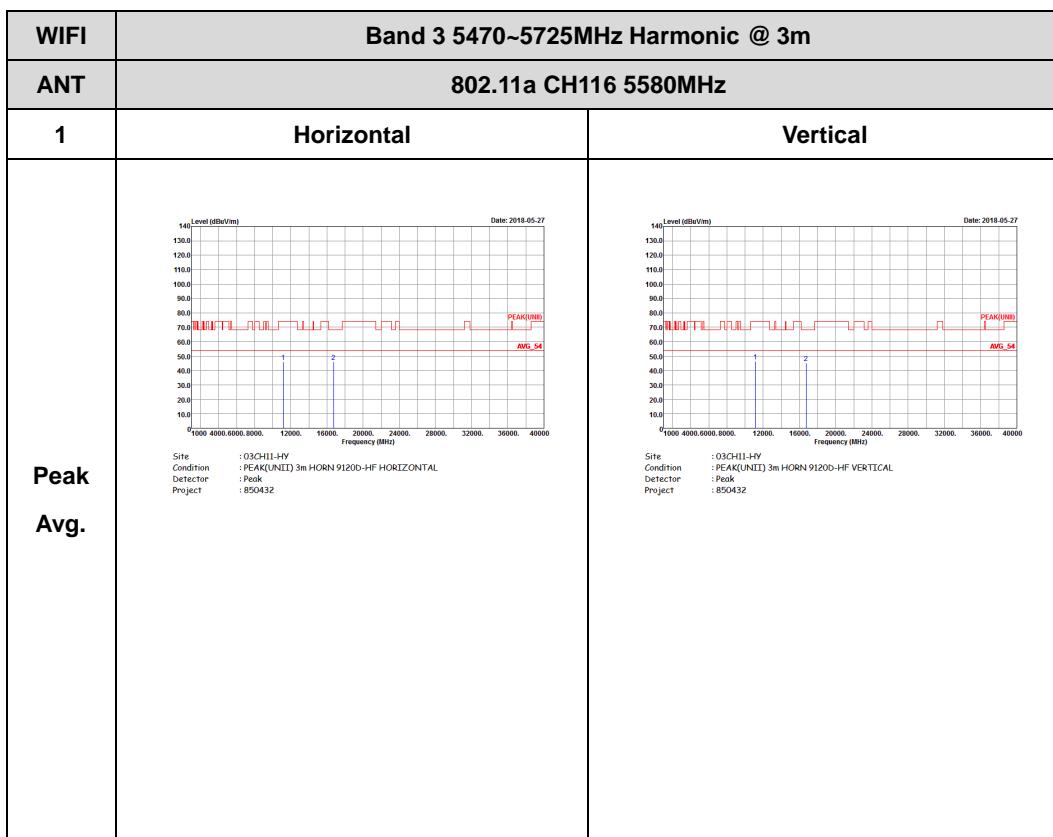
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Date: 2018-05-21</p> <p>Frequency (MHz)</p> <p>Site : 03-H1-HY Condition : PCIE-BE(UNID), B3 3m HORN 91200-HF VERTICAL Detector : Peak Project : 850432</p>	Left blank

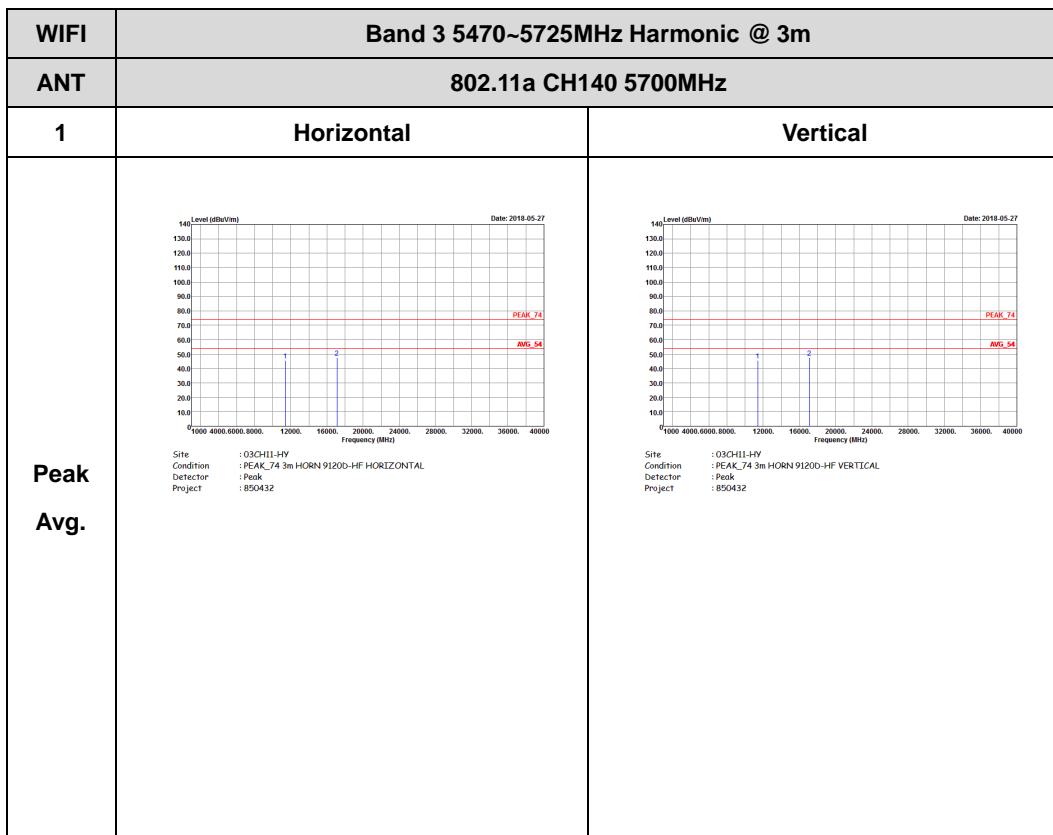


Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

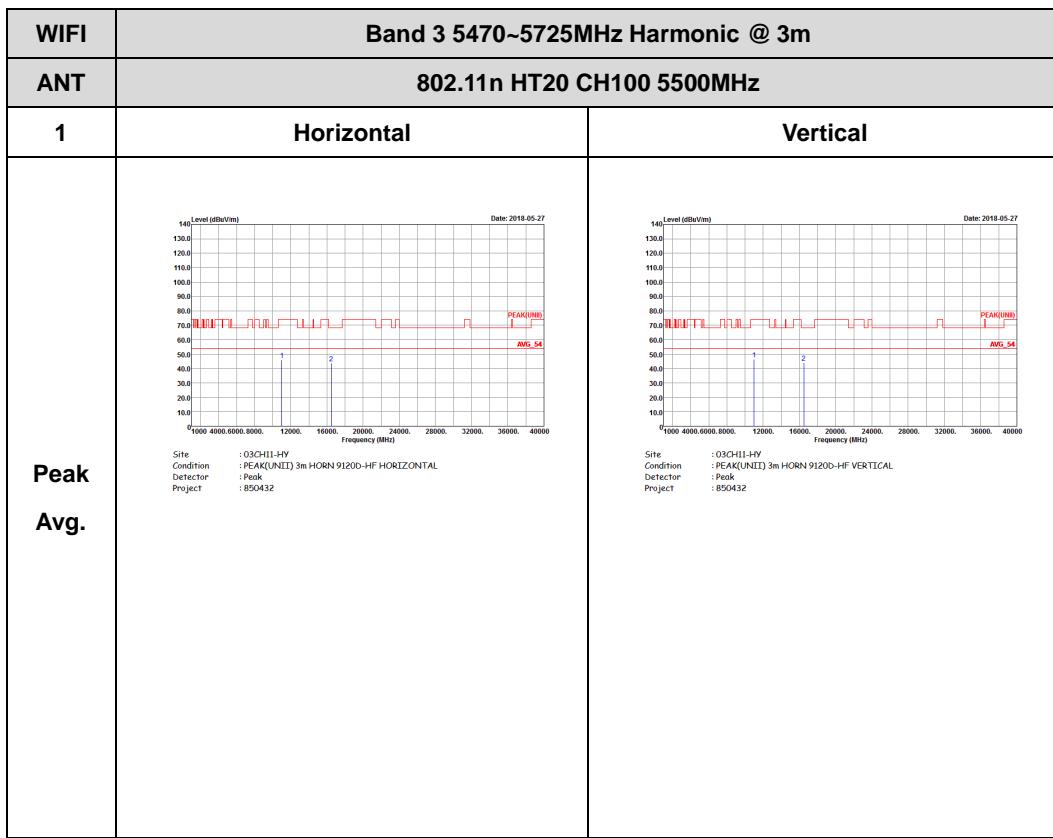


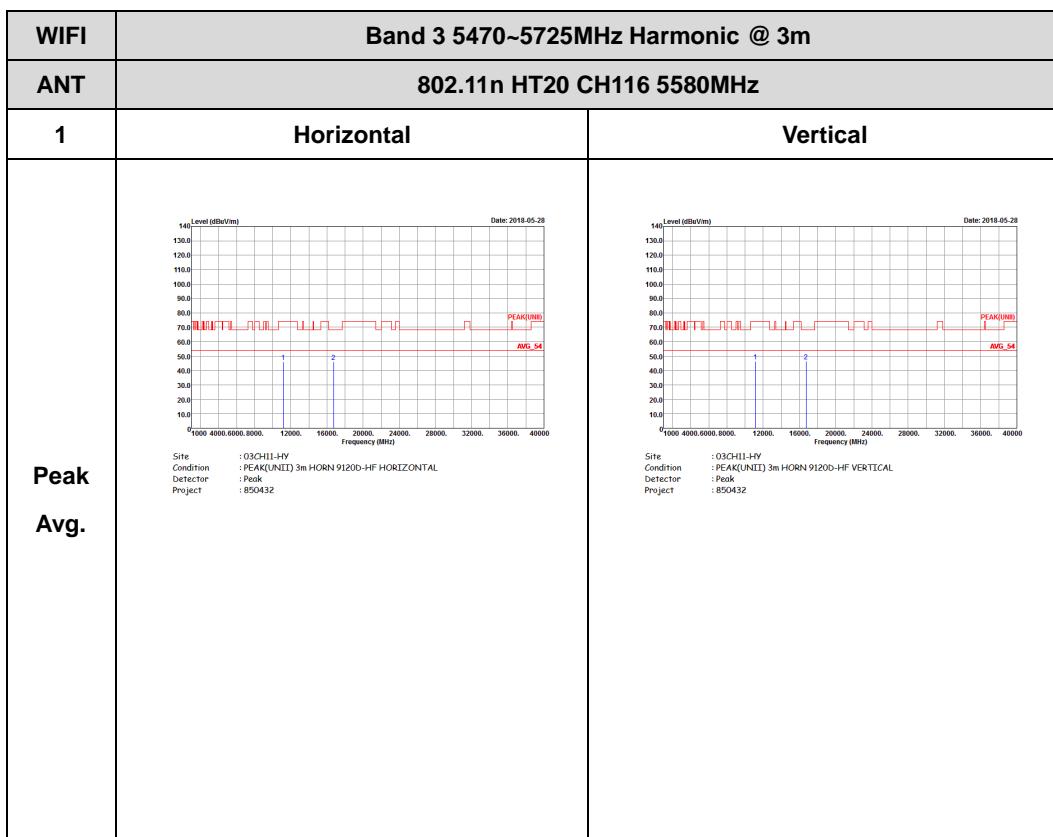


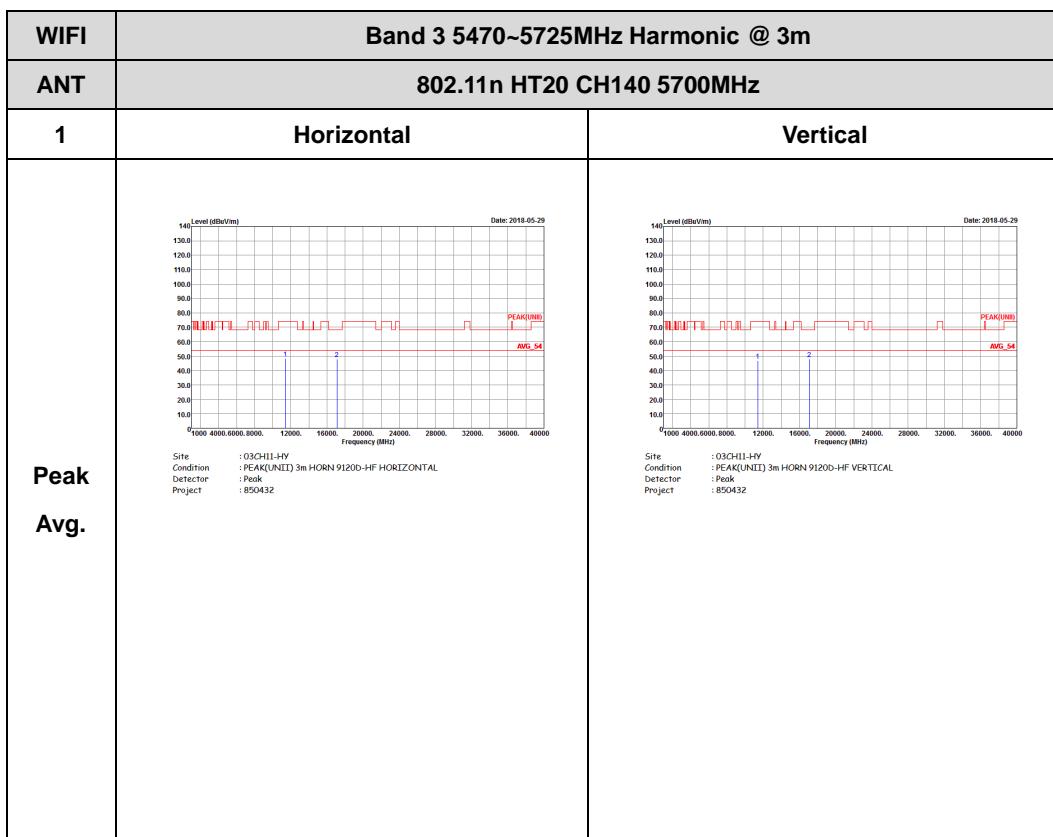




Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

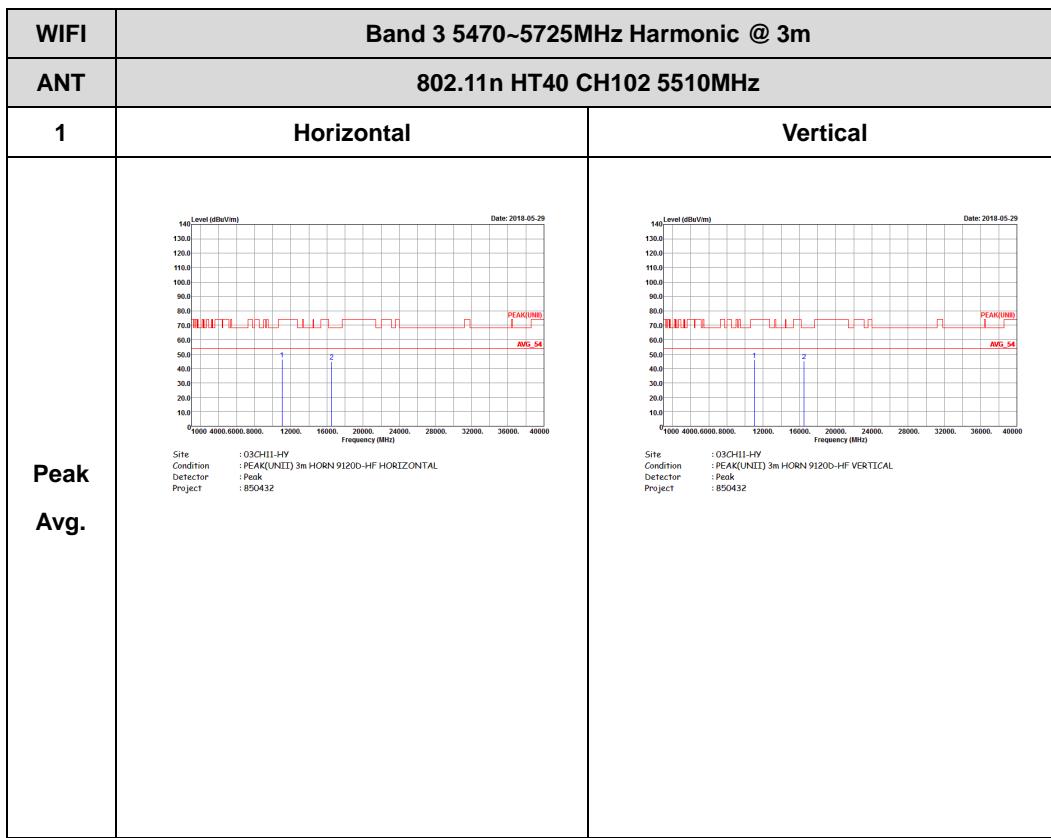


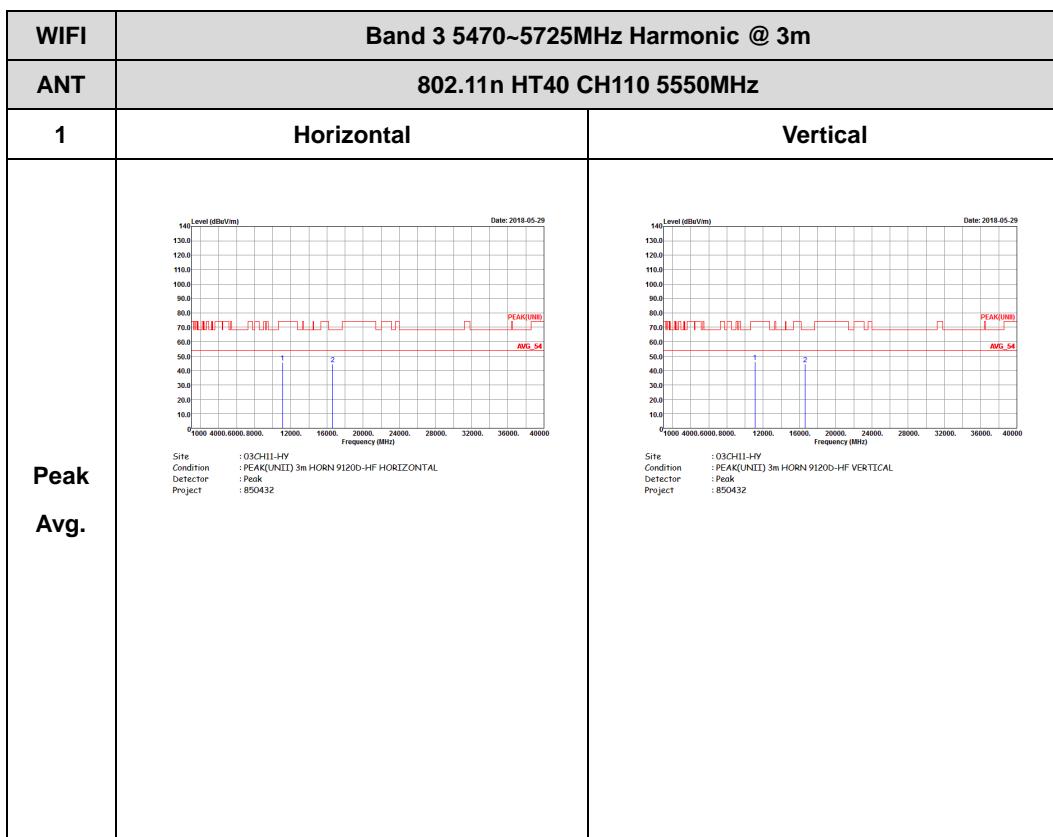


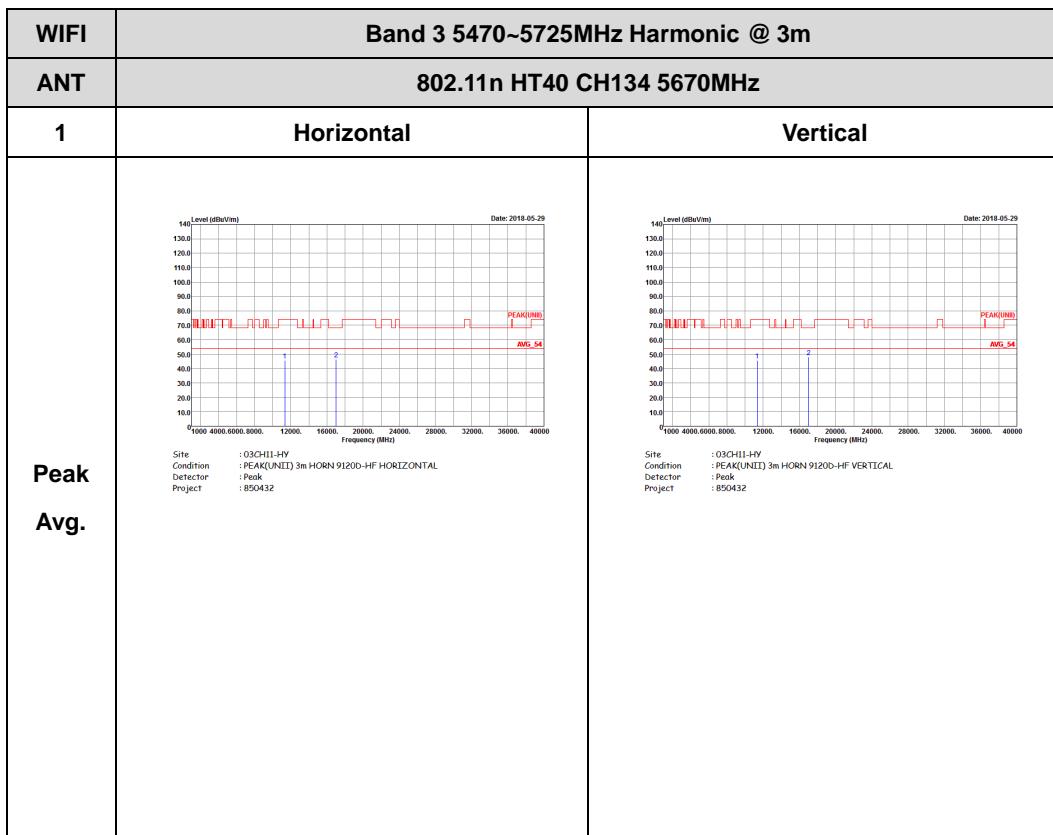




Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)



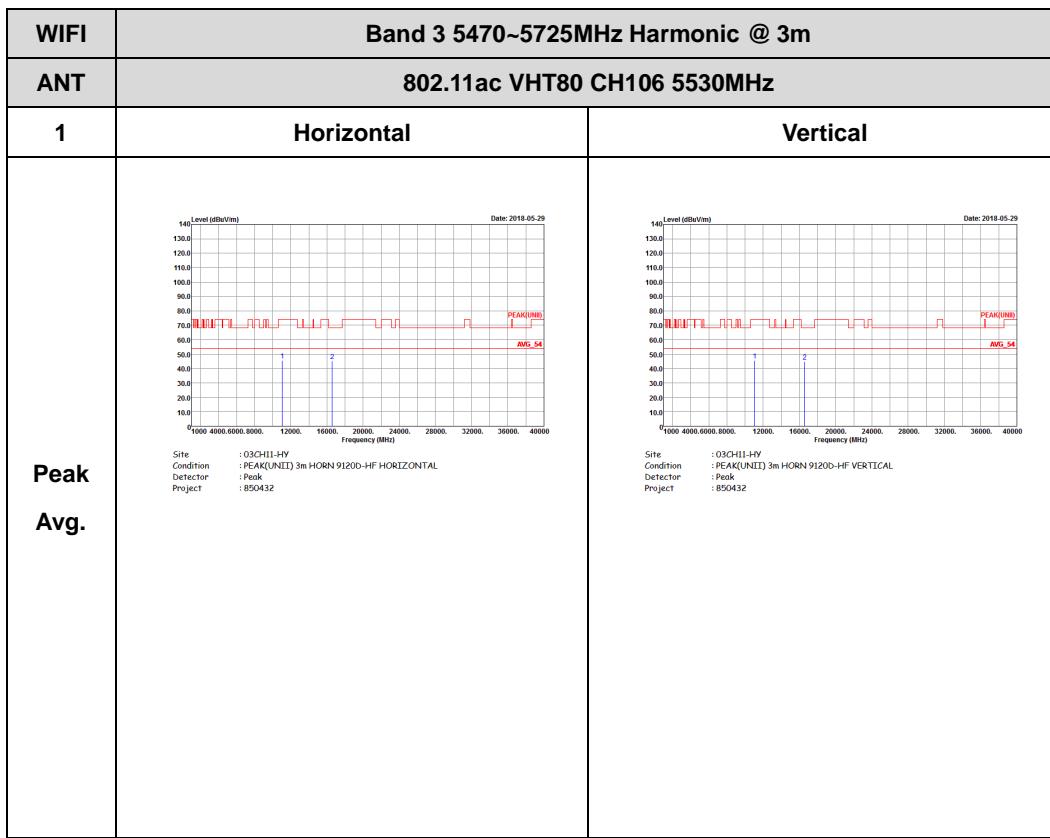


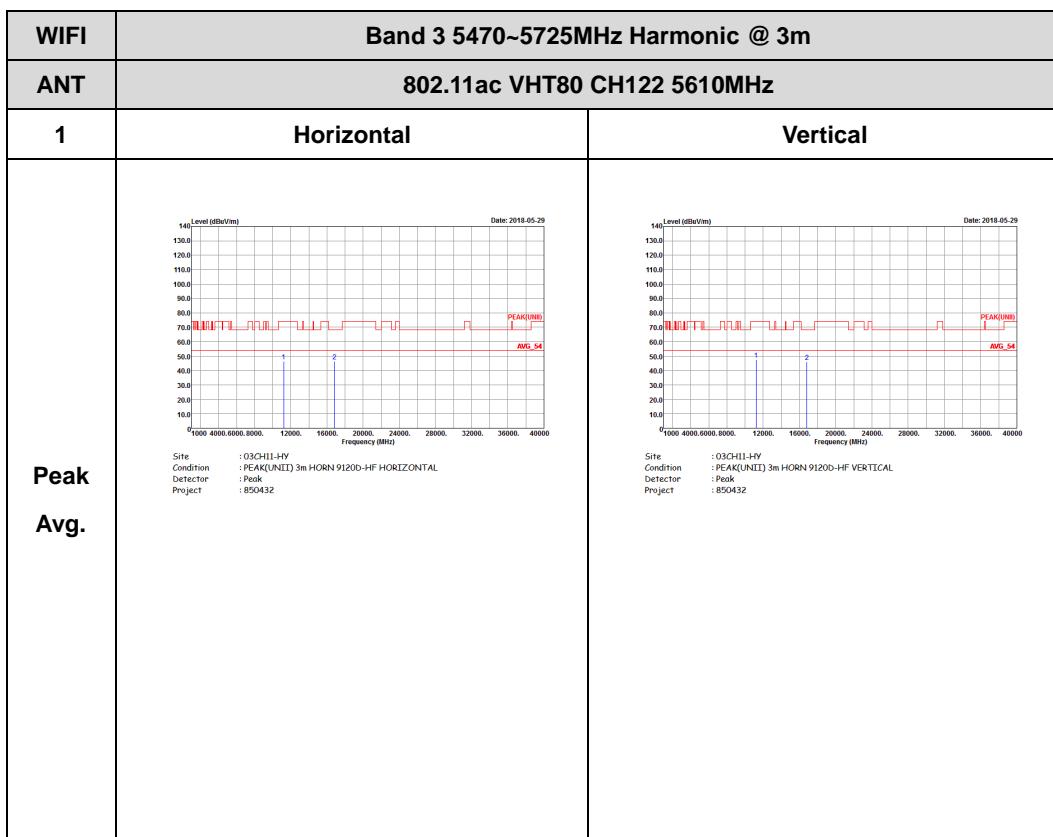




Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

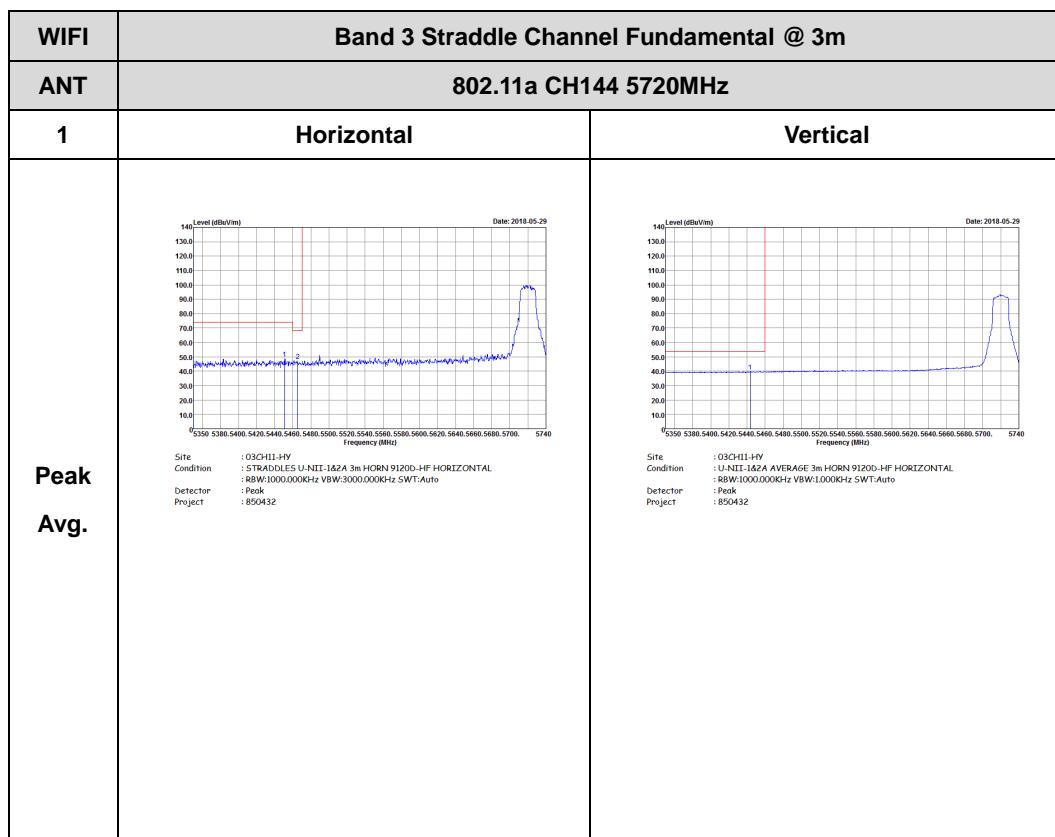






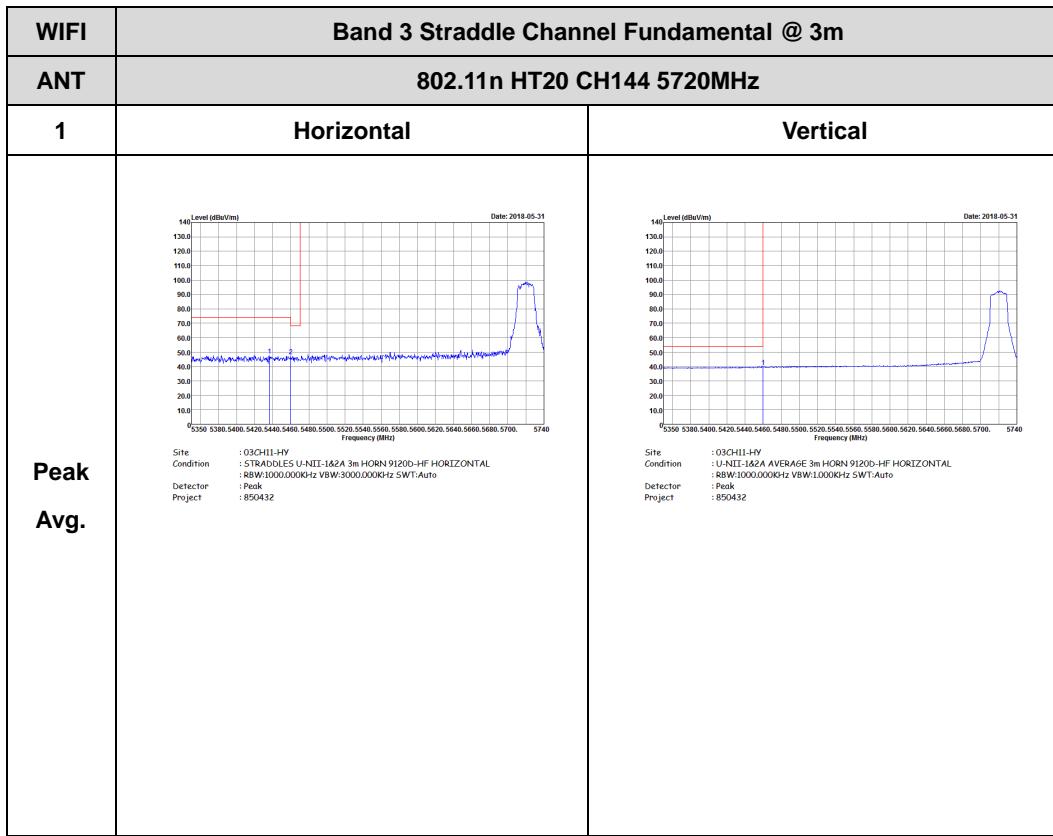
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)



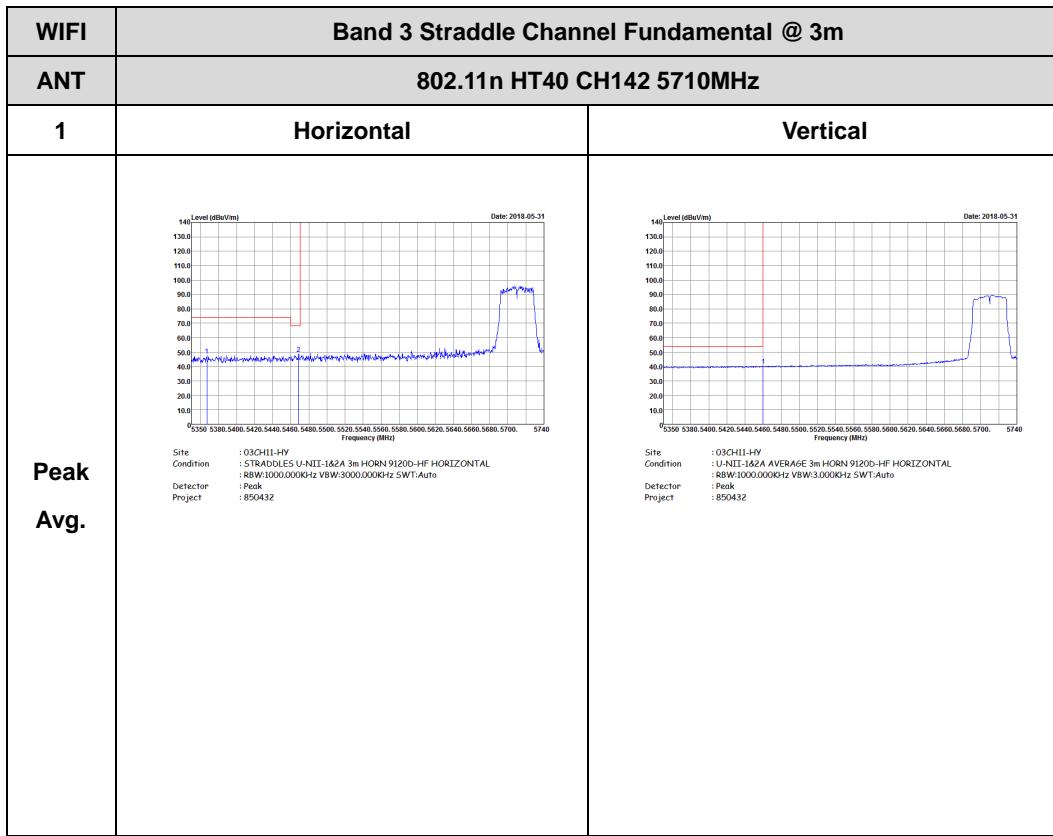


Band 3 – Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)





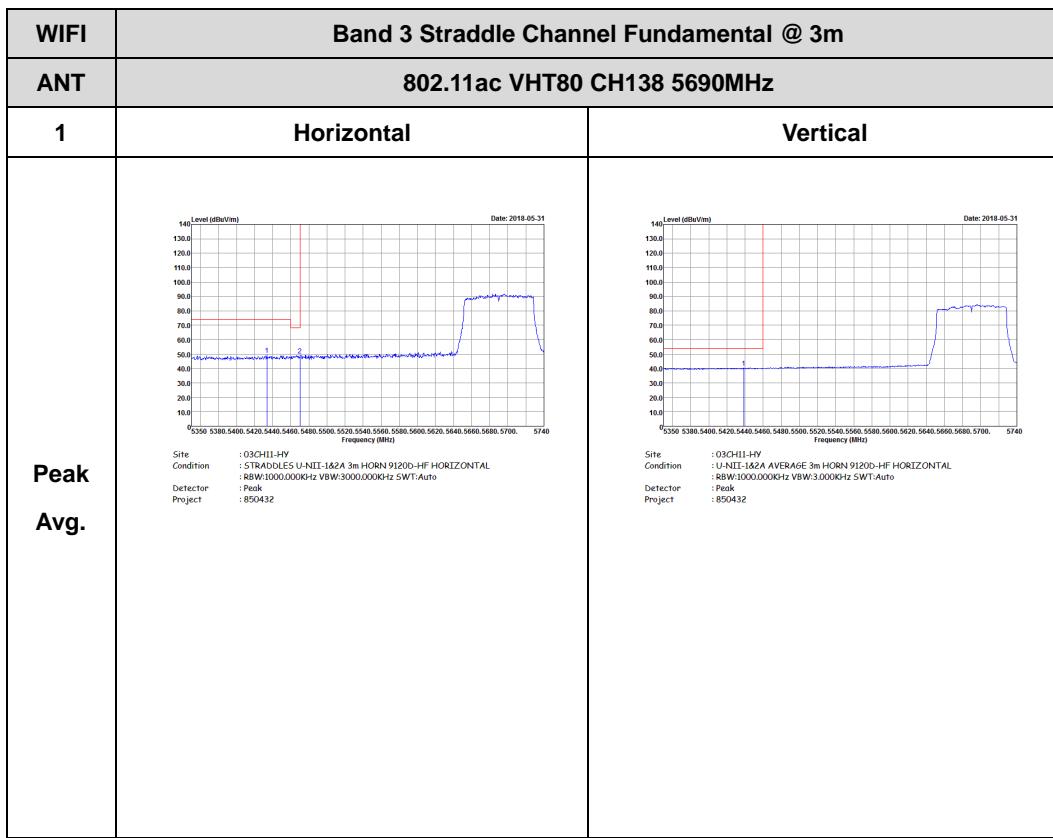
Band 3 – Straddle Channel
WIFI 802.11n HT40 (Fundamental @ 3m)





Band 3 – Straddle Channel

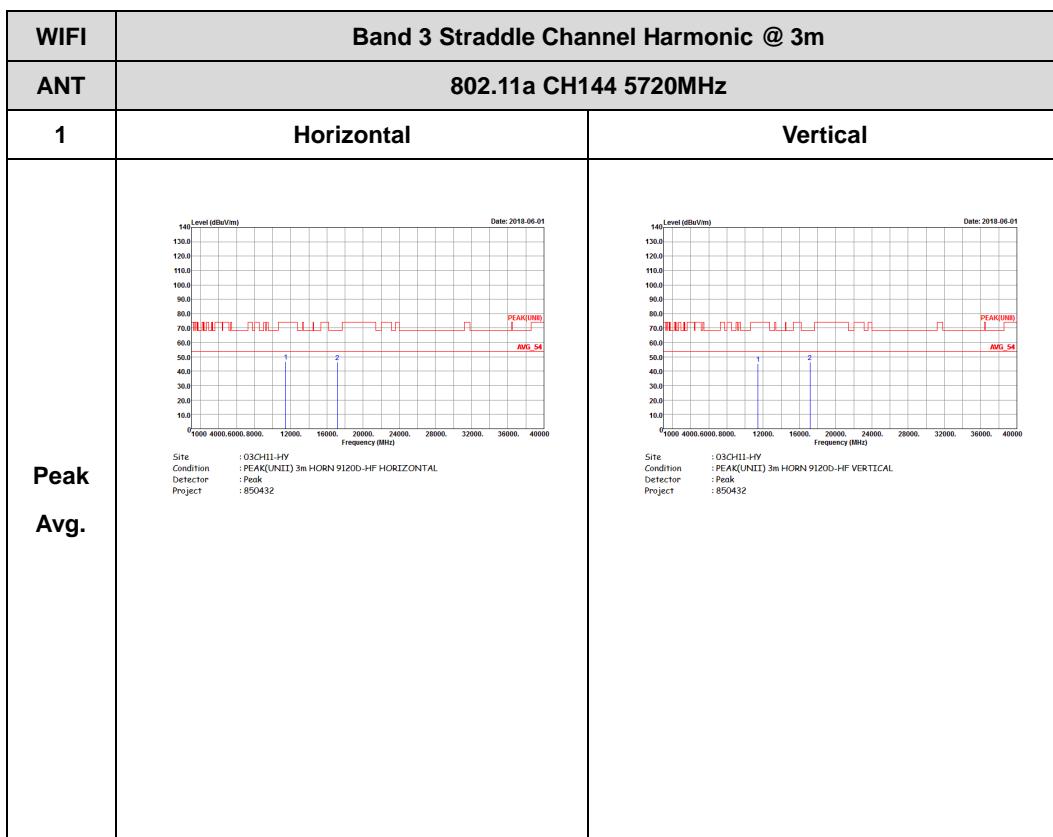
WIFI 802.11ac VHT80 (Fundamental @ 3m)





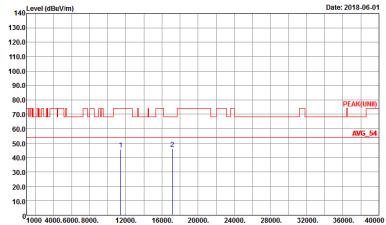
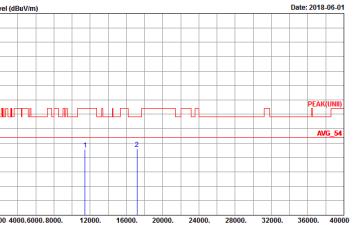
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)



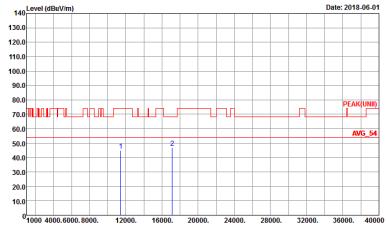
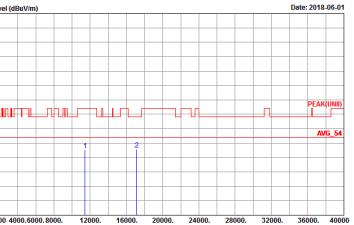


Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		

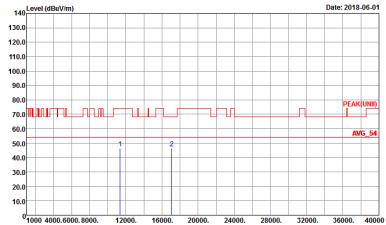
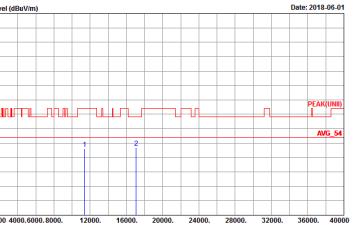


Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		



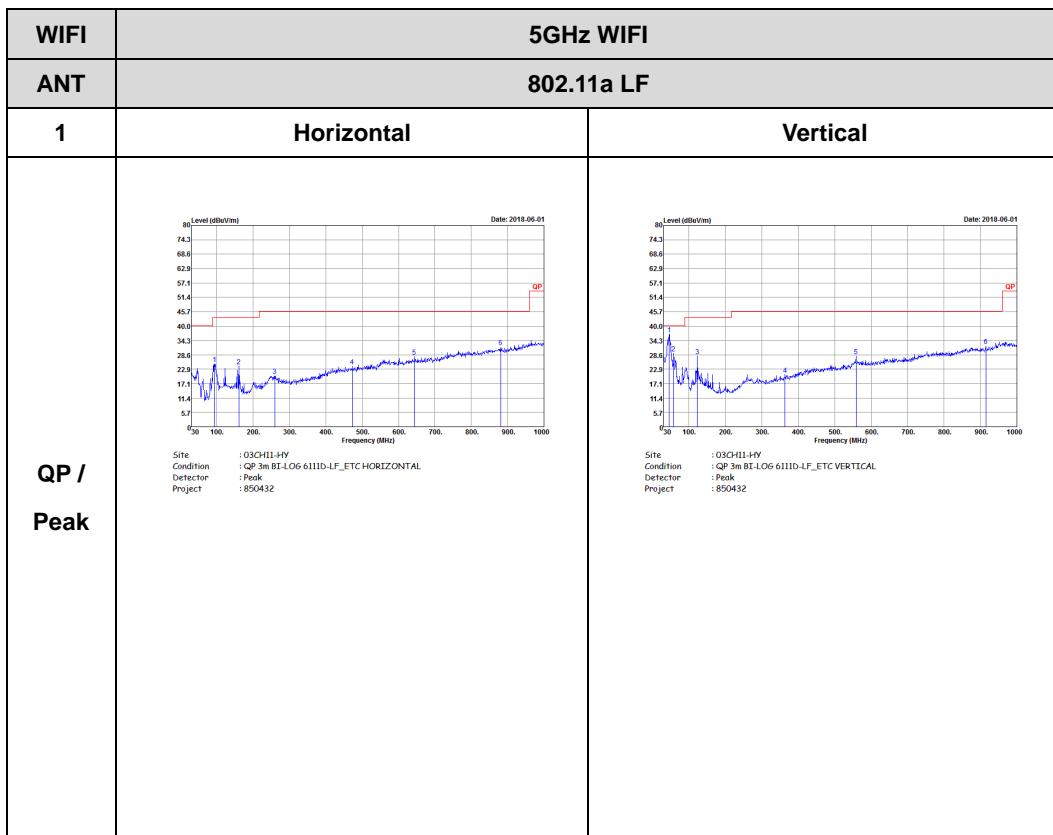
Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120U-HF HORIZONTAL Detector : Peak Project : 850432</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNL) 3m HORN 9120U-HF VERTICAL Detector : Peak Project : 850432</p>
Avg.		



Emission below 1GHz

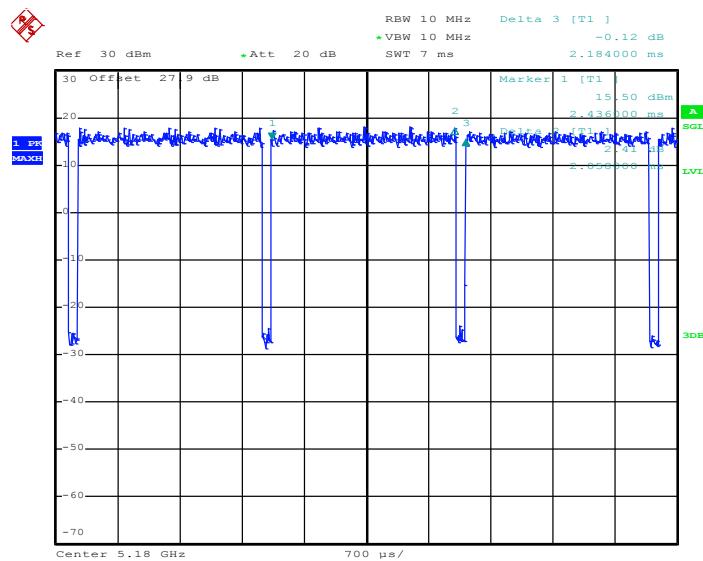
5GHz WIFI 802.11a (LF)





Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11a	94.23	2058.00	0.49	1kHz	0.26
5GHz 802.11n HT20	94.48	1918.00	0.52	1kHz	0.25
5GHz 802.11n HT40	90.48	950.00	1.05	3kHz	0.43
5GHz 802.11ac VHT20	94.53	1936.00	0.52	1kHz	0.24
5GHz 802.11ac VHT40	89.72	960.00	1.04	3kHz	0.47
5GHz 802.11ac VHT80	89.13	738.00	1.36	3kHz	0.50

802.11 a

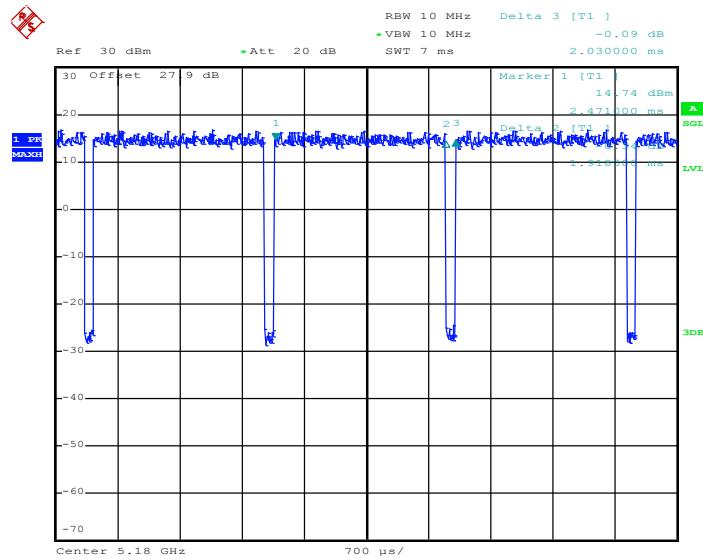
Date: 12.MAY.2018 00:53:48



FCC RADIO TEST REPORT

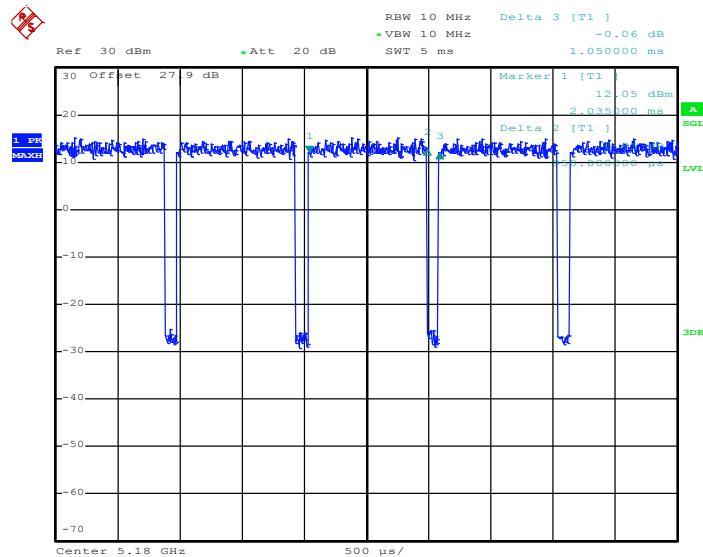
Report No. : FR850432D

802.11n HT20



Date: 12.MAY.2018 02:23:50

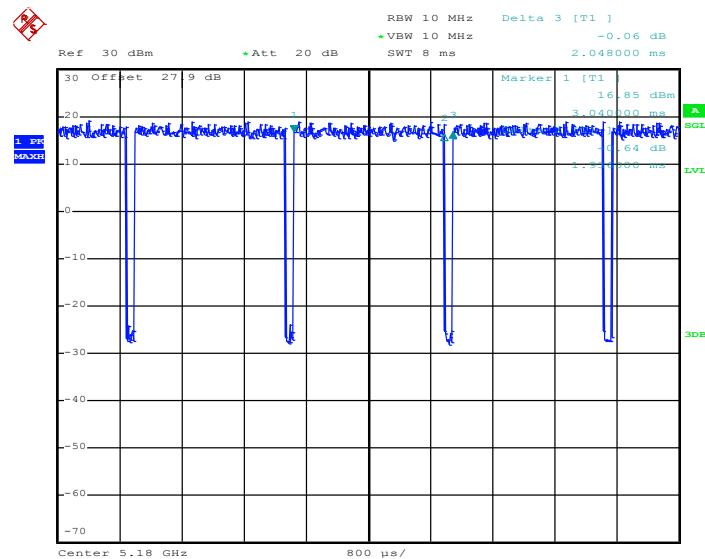
802.11n HT40



Date: 12.MAY.2018 03:02:04

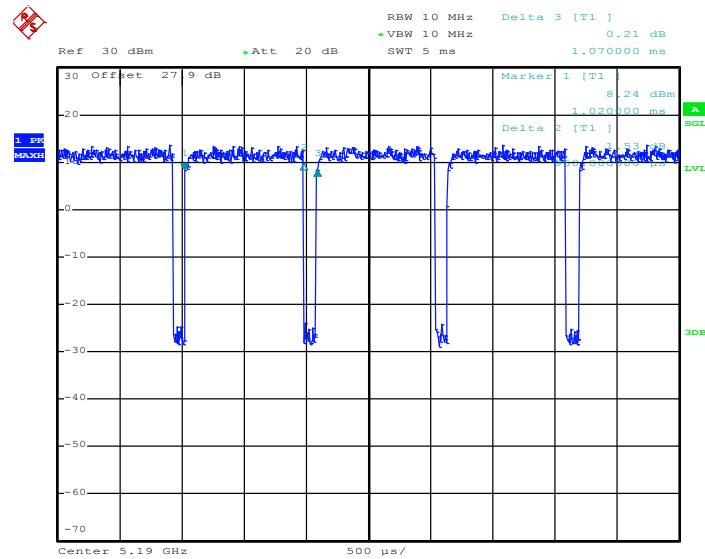


802.11ac VHT20



Date: 12.MAY.2018 03:16:21

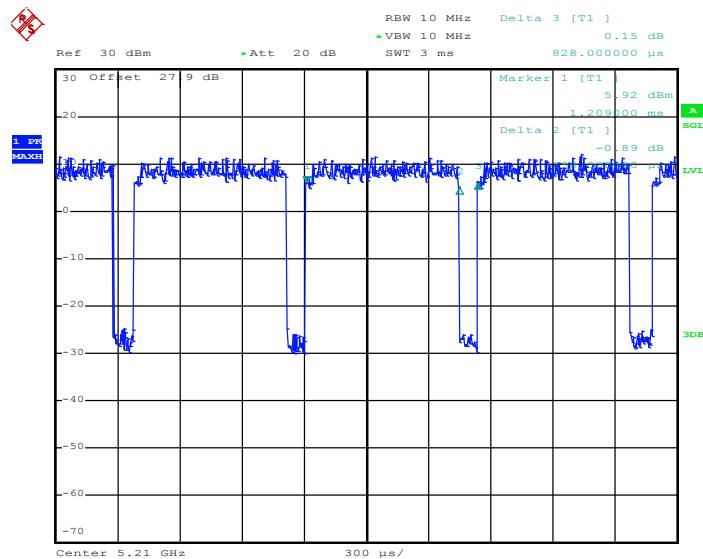
802.11ac VHT40



Date: 12.MAY.2018 03:56:21



802.11ac VHT80



Date: 12.MAY.2018 04:27:25