FCC RADIO TEST REPORT

FCC ID	**:**	**2AP7R-6245**
Equipment	**:**	**Tablet**
Model Name	**:**	**M2V3R5**
Applicant	**:**	**No Dark Matter LLC** **1350 Scenic Hwy, Ste. 266 Snellville, GA 30078**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on May 03, 2019 and testing was started from May 07, 2019 and completed on Jun. 24, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR8N2215-02D	01	Initial issue of report	Jul. 03, 2019

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang
Report Producer: Elise Chang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Model Name	M2V3R5
FCC ID	2AP7R-6245
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5250 MHz
Maximum Output Power to Antenna	**<Ant. 1>** 802.11a : 13.80 dBm / 0.0240 W 802.11n HT20 : 13.90 dBm / 0.0245 W 802.11n HT40 : 13.80 dBm / 0.0240 W 802.11ac VHT20 : 13.70 dBm / 0.0234 W 802.11ac VHT40 : 12.90 dBm / 0.0195 W 802.11ac VHT80 : 8.40 dBm / 0.0069 W **<Ant. 2>** 802.11a : 13.80 dBm / 0.0240 W 802.11n HT20 : 13.90 dBm / 0.0245 W 802.11n HT40 : 13.60 dBm / 0.0229 W 802.11ac VHT20 : 13.80 dBm / 0.0240 W 802.11ac VHT40 : 12.50 dBm / 0.0178 W 802.11ac VHT80 : 11.80 dBm / 0.0151 W
99% Occupied Bandwidth	**<Ant. 1>** 802.11a : 16.65 MHz 802.11 n HT20 : 17.70 MHz 802.11 n HT40 : 36.20 MHz 802.11 ac VHT80 : 76.80 MHz **<Ant. 2>** 802.11a : 16.65 MHz 802.11n HT20 : 17.65 MHz 802.11n HT40 : 36.30 MHz 802.11ac VHT80 : 76.56 MHz
Antenna Type / Gain	<Ant. 1>: Fixed Internal Antenna with gain 2.40 dBi <Ant. 2>: Fixed Internal Antenna with gain 1.50 dBi
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Antenna Function Description	<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr></table>

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	**Sporton Site No.**			
	TH05-HY	CO05-HY	DFS02-HY	03CH07-HY

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

FCC designation No.: TW1190

1.5 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane for Ant. 1 and X plane for Ant. 2) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

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.

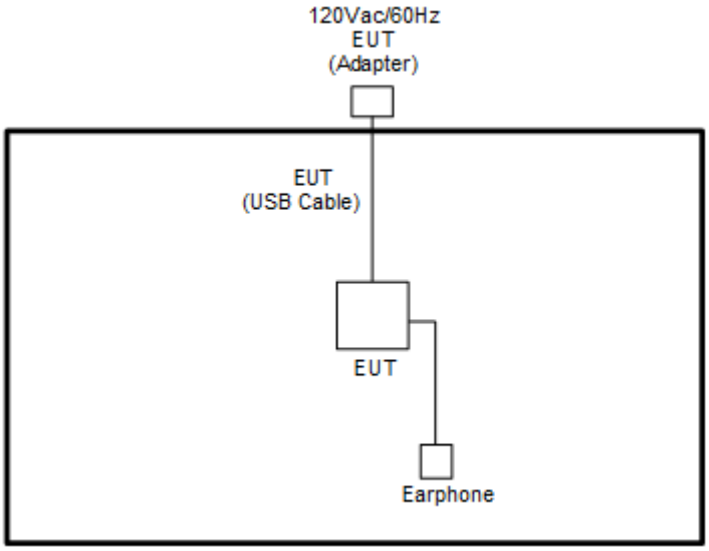
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Camera (Rear) + MicroSD Card + Earphone + USB Cable (Charging from Adapter 1)
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

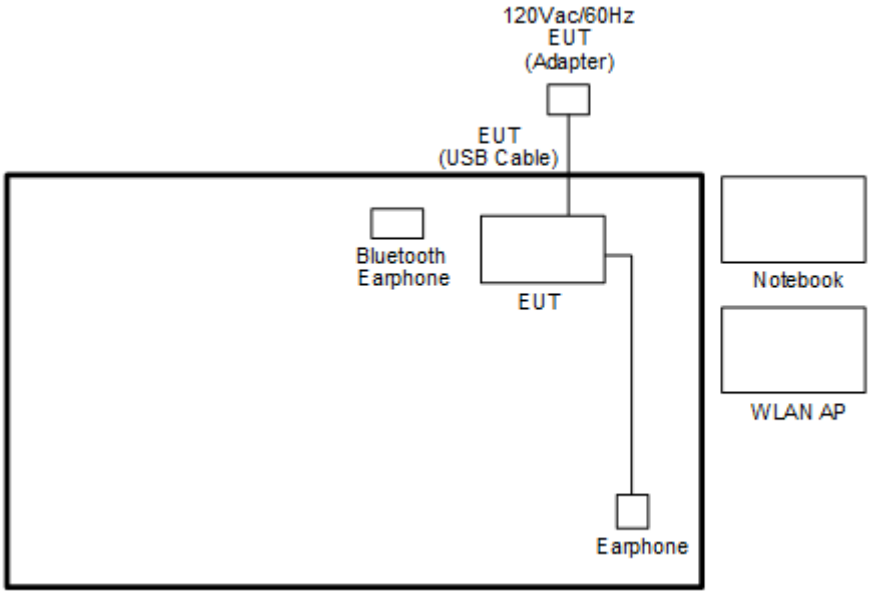
Ch. #		Band I：5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
M	Middle	44	44	-	42
H	High	48	48	46	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC1750	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	Earphone	N/A	N/A	Verification	Unshielded, 1.15 m	N/A

2.5 EUT Operation Test Setup

The RF test items, execute adb command to 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.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

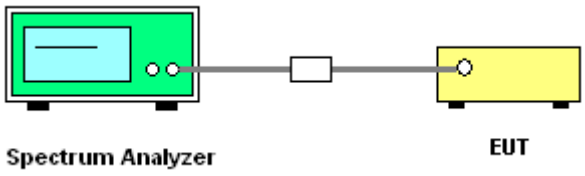
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

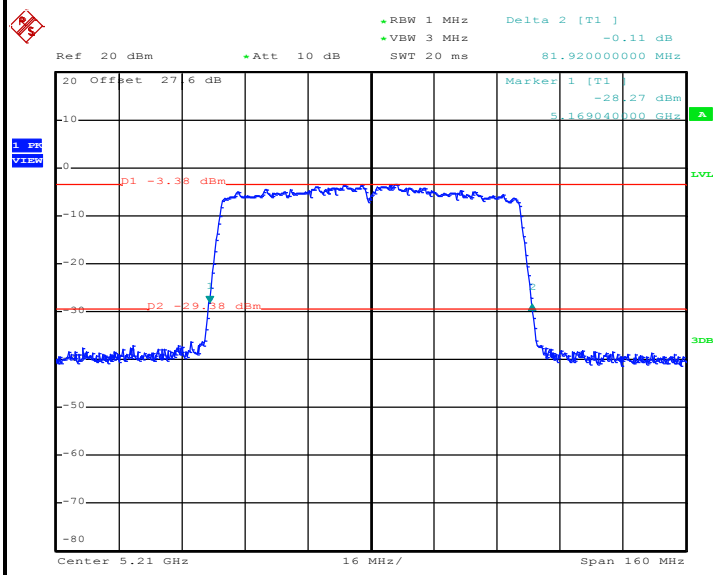
3.1.4 Test Setup



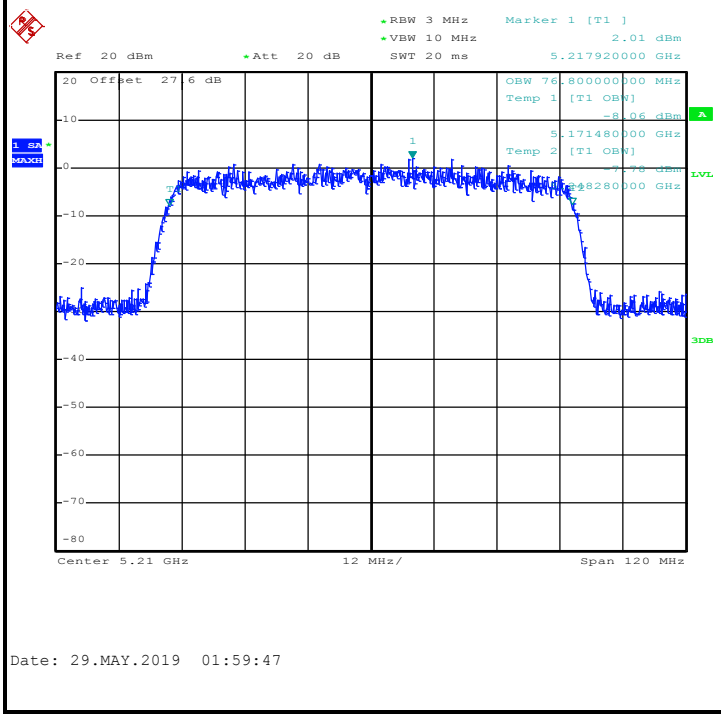
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

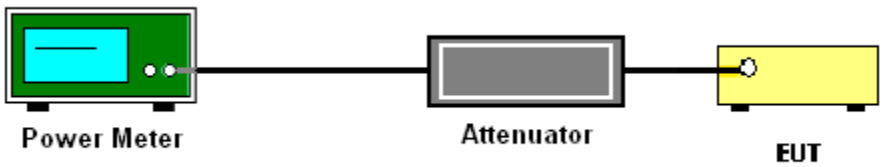
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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.

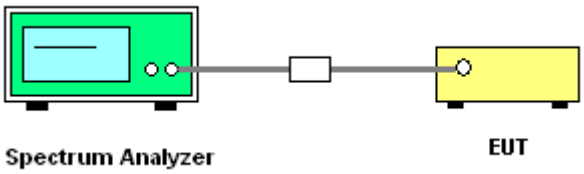
 # Method SA-2 #

(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 ≥ 3 MHz.
- Number of points in sweep ≥ 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.

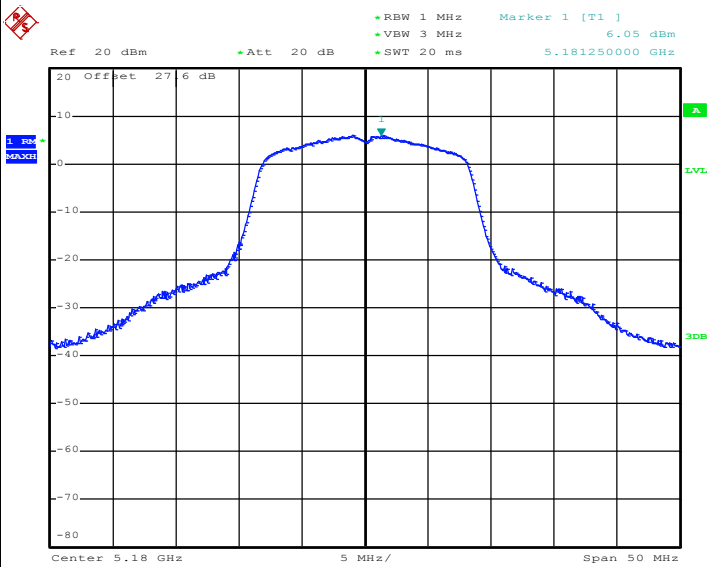
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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.

(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.

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

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

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

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.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 ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

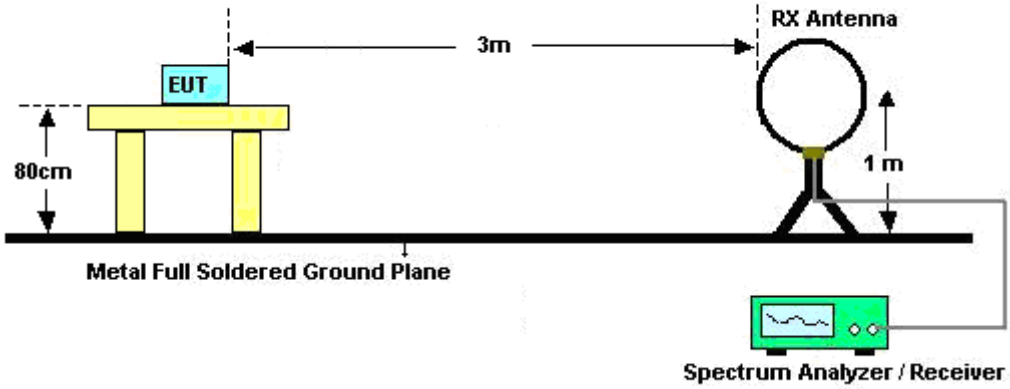
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

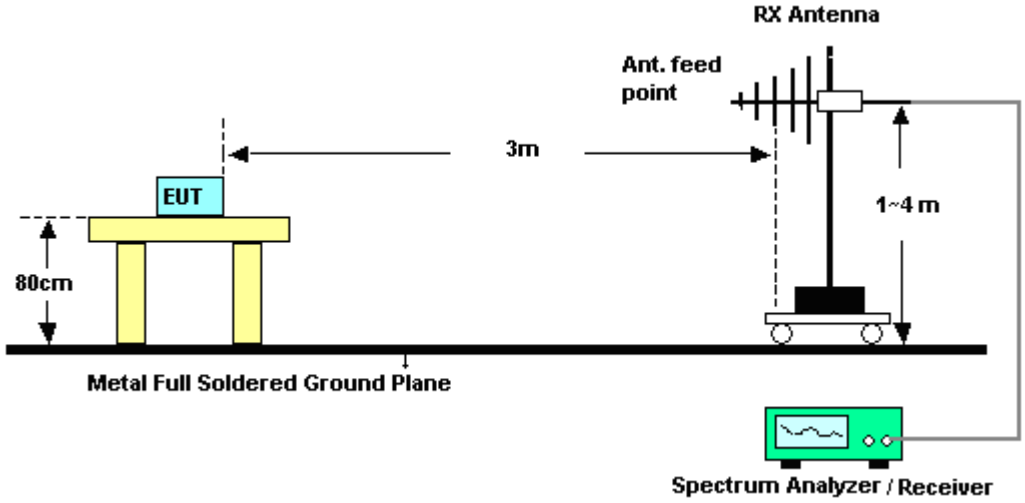
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

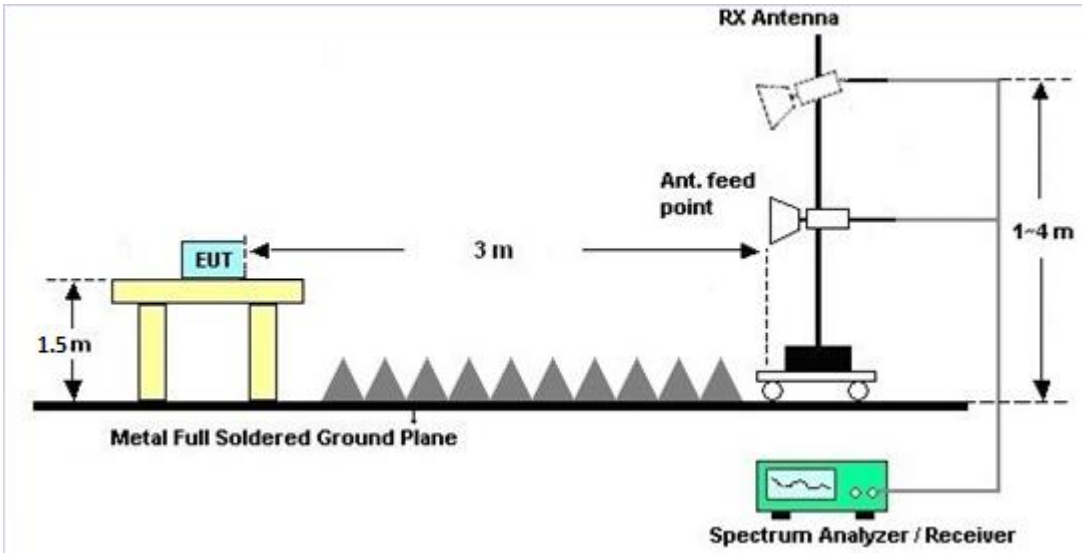
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

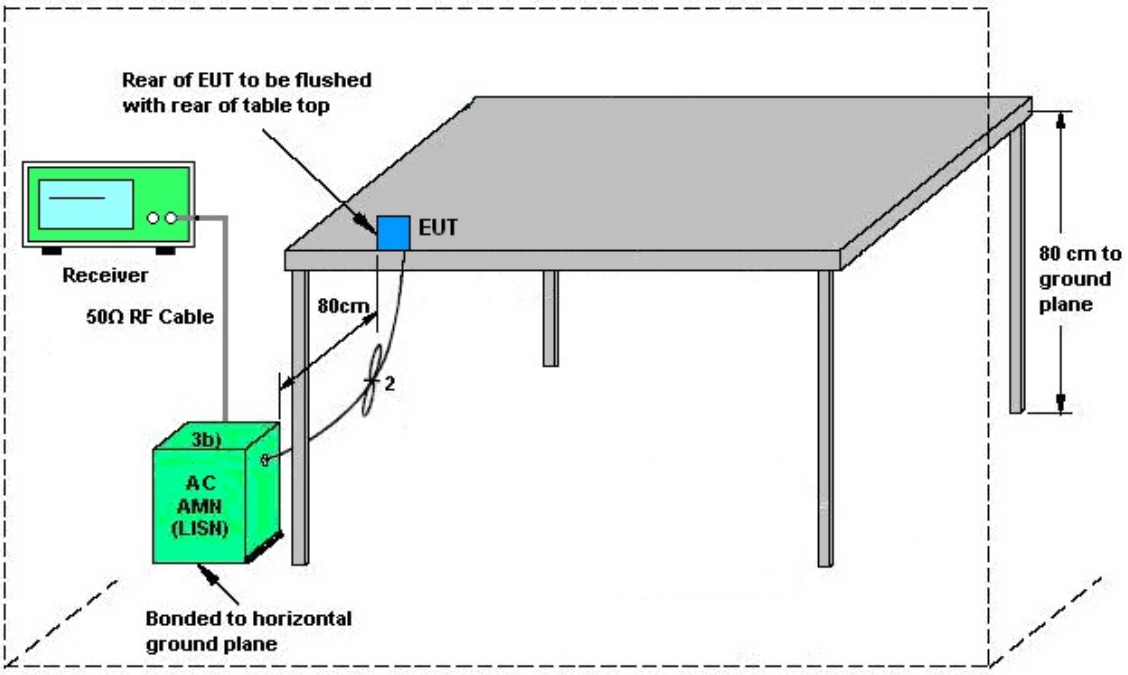
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

A. Information start: make EUT supply information to the access point.

B. Information stop: stop supplying information to the access point.

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

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

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

5180MHz

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Apr. 30, 2019	May 11, 2019~ Jun. 13, 2019	Apr. 29, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 02, 2018	May 11, 2019~ Jun. 13, 2019	Dec. 03, 2019	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 23, 2019	May 11, 2019~ Jun. 13, 2019	Jan. 22, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	May 11, 2019~ Jun. 13, 2019	Jan. 10, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 24, 2019	May 11, 2019~ Jun. 13, 2019	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 20, 2019	May 27, 2019	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Nov. 02, 2018	May 11, 2019~ Jun. 13, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200-8 SS	SN3	1.2G Low Pass	Nov. 02, 2018	May 11, 2019~ Jun. 13, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Nov. 02, 2018	May 11, 2019~ Jun. 13, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Microwave	WHKX7.0/26. 5G-6SS	SN4	7G High Pass	Nov. 02, 2018	May 11, 2019~ Jun. 13, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Feb. 26, 2019	May 11, 2019~ Jun. 13, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	May 11, 2019~ Jun. 13, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	May 11, 2019~ Jun. 13, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	May 11, 2019~ Jun. 13, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	May 11, 2019~ Jun. 13, 2019	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	May 11, 2019~ Jun. 13, 2019	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	May 11, 2019~ Jun. 13, 2019	Jul. 15, 2019	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Nov. 20, 2018	May 11, 2019~ Jun. 13, 2019	Nov. 19, 2019	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 18, 2019	May 11, 2019~ Jun. 13, 2019	Apr. 17, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656H	N/A	N/A	May 11, 2019~ Jun. 13, 2019	N/A	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 16, 2018	May 13, 2019	Aug. 15, 2019	DFS (DFS02-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 19, 2018	May 07, 2019~ Jun. 17, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	May 07, 2019~ Jun. 17, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW1070903	N/A	Dec 19,2018	May 07, 2019~ Jun. 17, 2019	Dec 18 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jun. 24, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 24, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.5**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2019/5/7 ~ 2019/06/17	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	16.65	16.50	25.50	21.60	-		22.21	22.17		
11a	6Mbps	1	44	5220	16.65	16.55	25.40	21.60	-		22.21	22.19		
11a	6Mbps	1	48	5240	16.55	16.65	22.10	21.60	-		22.19	22.21		
HT20	MCS0	1	36	5180	17.70	17.65	27.50	25.30	-		22.48	22.47		
HT20	MCS0	1	44	5220	17.65	17.65	27.60	22.30	-		22.47	22.47		
HT20	MCS0	1	48	5240	17.65	17.65	26.60	25.60	-		22.47	22.47		
HT40	MCS0	1	38	5190	36.20	36.10	41.76	41.58	-		23.01	23.01		
HT40	MCS0	1	46	5230	36.20	36.30	48.78	41.58	-		23.01	23.01		
VHT80	MCS0	1	42	5210	76.80	76.56	81.92	81.60	-		23.01	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	13.80	13.80		24.00	24.00	2.40	1.50		Pass
11a	6Mbps	1	44	5220	13.70	13.70		24.00	24.00	2.40	1.50		Pass
11a	6Mbps	1	48	5240	13.60	13.80		24.00	24.00	2.40	1.50		Pass
HT20	MCS0	1	36	5180	13.80	13.60		24.00	24.00	2.40	1.50		Pass
HT20	MCS0	1	44	5220	13.90	13.90		24.00	24.00	2.40	1.50		Pass
HT20	MCS0	1	48	5240	13.80	13.80		24.00	24.00	2.40	1.50		Pass
HT40	MCS0	1	38	5190	11.70	12.00		24.00	24.00	2.40	1.50		Pass
HT40	MCS0	1	46	5230	13.80	13.60		24.00	24.00	2.40	1.50		Pass
VHT20	MCS0	1	36	5180	13.70	13.50		24.00	24.00	2.40	1.50		Pass
VHT20	MCS0	1	44	5220	13.70	13.80		24.00	24.00	2.40	1.50		Pass
VHT20	MCS0	1	48	5240	13.70	13.70		24.00	24.00	2.40	1.50		Pass
VHT40	MCS0	1	38	5190	11.60	11.90		24.00	24.00	2.40	1.50		Pass
VHT40	MCS0	1	46	5230	12.90	12.50		24.00	24.00	2.40	1.50		Pass
VHT80	MCS0	1	42	5210	8.40	11.80		24.00	24.00	2.40	1.50		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.00	0.00	6.05	5.79		11.00	11.00	2.40	1.50		Pass
11a	6Mbps	1	44	5220	0.00	0.00	5.96	5.91		11.00	11.00	2.40	1.50		Pass
11a	6Mbps	1	48	5240	0.00	0.00	4.96	5.36		11.00	11.00	2.40	1.50		Pass
HT20	MCS0	1	36	5180	0.00	0.00	4.85	4.82		11.00	11.00	2.40	1.50		Pass
HT20	MCS0	1	44	5220	0.00	0.00	5.12	5.05		11.00	11.00	2.40	1.50		Pass
HT20	MCS0	1	48	5240	0.00	0.00	4.76	5.23		11.00	11.00	2.40	1.50		Pass
HT40	MCS0	1	38	5190	0.00	0.00	0.11	0.11		11.00	11.00	2.40	1.50		Pass
HT40	MCS0	1	46	5230	0.00	0.00	2.15	1.56		11.00	11.00	2.40	1.50		Pass
VHT80	MCS0	1	42	5210	0.00	0.00	-6.95	-4.13		11.00	11.00	2.40	1.50		Pass

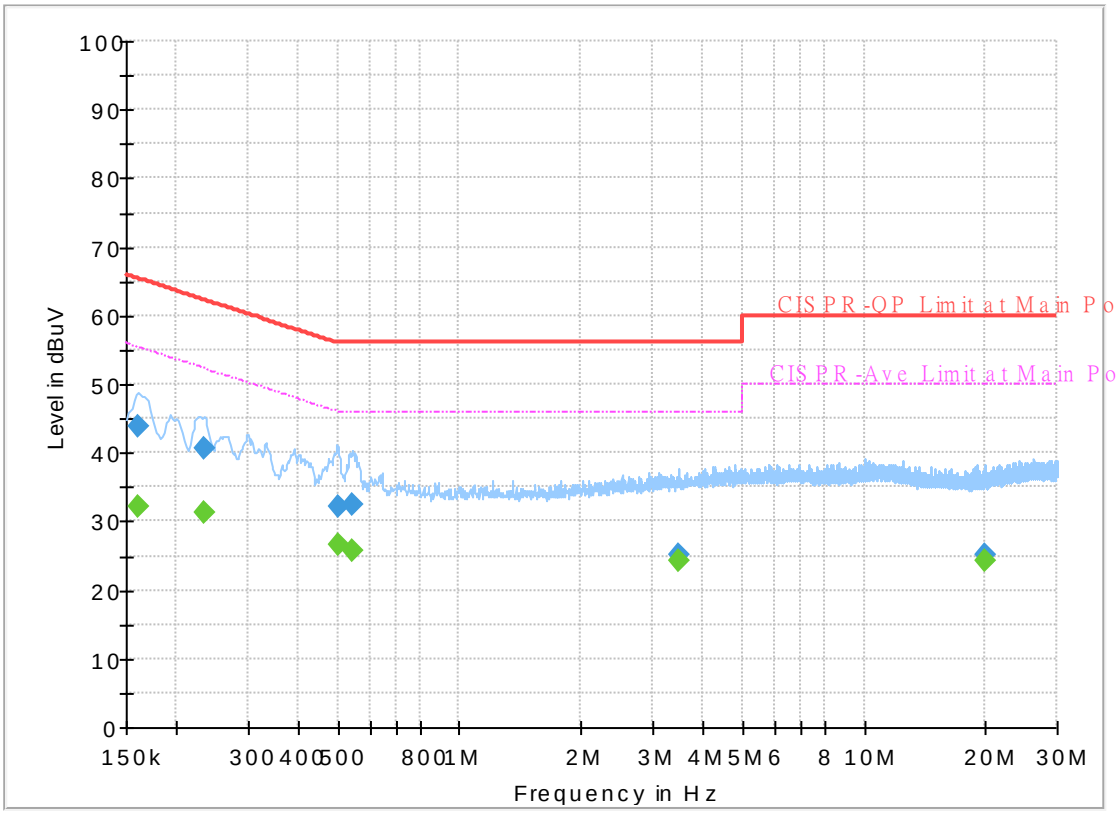
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	52~55%

EUT Information

Report NO :	8N2215-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



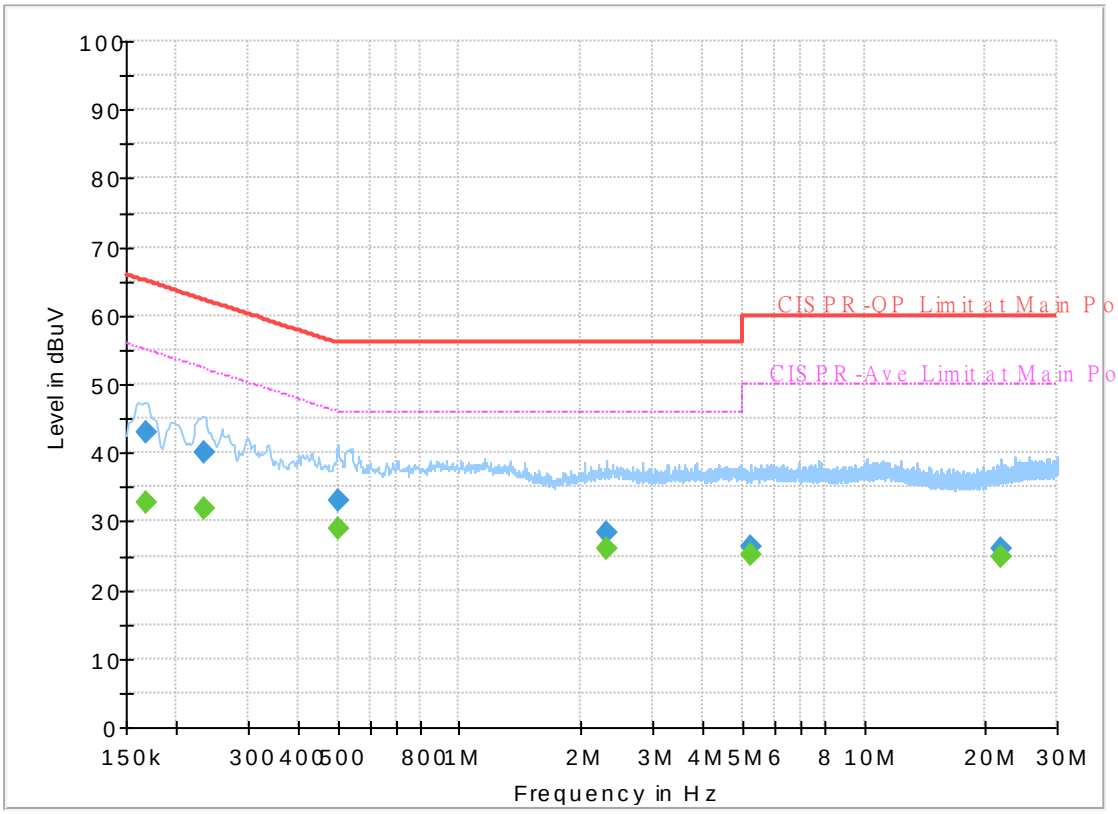
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	32.17	55.40	23.23	L1	OFF	19.4
0.161250	43.83	---	65.40	21.57	L1	OFF	19.4
0.233250	---	31.20	52.33	21.13	L1	OFF	19.4
0.233250	40.71	---	62.33	21.62	L1	OFF	19.4
0.503250	---	26.56	46.00	19.44	L1	OFF	19.4
0.503250	32.09	---	56.00	23.91	L1	OFF	19.4
0.543750	---	25.65	46.00	20.35	L1	OFF	19.4
0.543750	32.54	---	56.00	23.46	L1	OFF	19.4
3.473250	---	24.17	46.00	21.83	L1	OFF	19.6
3.473250	25.29	---	56.00	30.71	L1	OFF	19.6
19.826250	---	24.24	50.00	25.76	L1	OFF	20.2
19.826250	25.20	---	60.00	34.80	L1	OFF	20.2

EUT Information

Report NO :	8N2215-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	32.83	55.06	22.23	N	OFF	19.5
0.168000	43.04	---	65.06	22.02	N	OFF	19.5
0.233250	---	31.78	52.33	20.55	N	OFF	19.5
0.233250	40.13	---	62.33	22.20	N	OFF	19.5
0.501000	---	28.84	46.00	17.16	N	OFF	19.5
0.501000	33.14	---	56.00	22.86	N	OFF	19.5
2.314500	---	26.05	46.00	19.95	N	OFF	19.5
2.314500	28.40	---	56.00	27.60	N	OFF	19.5
5.248500	---	25.26	50.00	24.74	N	OFF	19.7
5.248500	26.45	---	60.00	33.55	N	OFF	19.7
21.684750	---	24.92	50.00	25.08	N	OFF	20.3
21.684750	26.12	---	60.00	33.88	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Troye Hsieh	Temperature :	20~26°C
		Relative Humidity :	50~56%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.68	53.37	-20.63	74	42.83	34.3	11.29	35.05	105	231	P	H
		5150	44.74	-9.26	54	34.2	34.3	11.29	35.05	105	231	A	H
	*	5180	107.37	-	-	96.83	34.3	11.29	35.05	105	231	P	H
	*	5180	100.08	-	-	89.54	34.3	11.29	35.05	105	231	A	H
		5145.08	58.17	-15.83	74	47.63	34.3	11.29	35.05	110	122	P	V
		5150	50.16	-3.84	54	39.62	34.3	11.29	35.05	110	122	A	V
	*	5180	113.69	-	-	103.15	34.3	11.29	35.05	110	122	P	V
	*	5180	106.42	-	-	95.88	34.3	11.29	35.05	110	122	A	V
802.11a CH 44 5220MHz		5136.5	52.86	-21.14	74	42.47	34.2	11.24	35.05	100	231	P	H
		5150	43.26	-10.74	54	32.72	34.3	11.29	35.05	100	231	A	H
	*	5220	107.91	-	-	97.29	34.33	11.34	35.05	100	231	P	H
	*	5220	100.57	-	-	89.95	34.33	11.34	35.05	100	231	A	H
		5391.4	50.18	-23.82	74	39.18	34.53	11.53	35.06	100	231	P	H
		5350.8	41.2	-12.8	54	30.36	34.4	11.49	35.05	100	231	A	H
		5147.42	56.37	-17.63	74	45.83	34.3	11.29	35.05	111	123	P	V
		5144.04	47.35	-6.65	54	36.81	34.3	11.29	35.05	111	123	A	V
	*	5220	114.1	-	-	103.48	34.33	11.34	35.05	111	123	P	V
	*	5220	106.2	-	-	95.58	34.33	11.34	35.05	111	123	A	V
		5356.12	52.97	-21.03	74	42.13	34.4	11.49	35.05	111	123	P	V
		5350.52	45.21	-8.79	54	34.37	34.4	11.49	35.05	111	123	A	V

802.11a CH 48 5240MHz		5120.9	50.31	-23.69	74	40.02	34.1	11.24	35.05	400	220	P	H
		5125.32	40.95	-13.05	54	30.56	34.2	11.24	35.05	400	220	A	H
	*	5240	105.09	-	-	94.39	34.37	11.38	35.05	400	220	P	H
	*	5240	97.82	-	-	87.12	34.37	11.38	35.05	400	220	A	H
		5369.84	49.52	-24.48	74	38.61	34.47	11.49	35.05	400	220	P	H
		5365.64	40.76	-13.24	54	29.85	34.47	11.49	35.05	400	220	A	H
		5107.38	53.66	-20.34	74	43.36	34.1	11.24	35.04	255	140	P	V
		5114.4	44.27	-9.73	54	33.97	34.1	11.24	35.04	255	140	A	V
	*	5240	111.78	-	-	101.08	34.37	11.38	35.05	255	140	P	V
	*	5240	104.52	-	-	93.82	34.37	11.38	35.05	255	140	A	V
		5368.16	51.15	-22.85	74	40.24	34.47	11.49	35.05	255	140	P	V
		5351.64	42.72	-11.28	54	31.88	34.4	11.49	35.05	255	140	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	47.68	-20.52	68.2	52.51	37.33	17.42	59.58	100	0	P	H
		15540	60.39	-13.61	74	56.32	40.27	20.32	56.52	179	336	P	H
		15540	49.81	-4.19	54	45.74	40.27	20.32	56.52	179	336	A	H
		10360	47.56	-20.64	68.2	52.39	37.33	17.42	59.58	100	0	P	V
		15540	53.89	-20.11	74	49.82	40.27	20.32	56.52	316	27	P	V
		15540	43.43	-10.57	54	39.36	40.27	20.32	56.52	316	27	A	V
802.11a CH 44 5220MHz		10440	49.81	-18.39	68.2	54.5	37.4	17.45	59.54	100	0	P	H
		15660	63.65	-10.35	74	59.66	40.3	20.39	56.7	180	335	P	H
		15660	53.29	-0.71	54	49.3	40.3	20.39	56.7	180	335	A	H
		10440	49.97	-18.23	68.2	54.66	37.4	17.45	59.54	100	0	P	V
		15660	55.74	-18.26	74	51.75	40.3	20.39	56.7	311	26	P	V
		15660	45.89	-8.11	54	41.9	40.3	20.39	56.7	311	26	A	V
802.11a CH 48 5240MHz		10480	48.34	-19.86	68.2	52.98	37.4	17.46	59.5	100	0	P	H
		15720	63.25	-10.75	74	59.21	40.43	20.42	56.81	192	336	P	H
		15720	53.12	-0.88	54	49.08	40.43	20.42	56.81	192	336	A	H
		10480	48.94	-19.26	68.2	53.58	37.4	17.46	59.5	100	0	P	V
		15720	55.89	-18.11	74	51.85	40.43	20.42	56.81	305	26	P	V
		15720	45.44	-8.56	54	41.4	40.43	20.42	56.81	305	26	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5136.76	52.21	-21.79	74	41.82	34.2	11.24	35.05	104	231	P	H
		5149.5	43.94	-10.06	54	33.4	34.3	11.29	35.05	104	231	A	H
802.11n	*	5180	106.19	-	-	95.65	34.3	11.29	35.05	104	231	P	H
HT20	*	5180	99.05	-	-	88.51	34.3	11.29	35.05	104	231	A	H
CH 36		5148.98	58.18	-15.82	74	47.64	34.3	11.29	35.05	110	122	P	V
5180MHz		5148.98	48.72	-5.28	54	38.18	34.3	11.29	35.05	110	122	A	V
	*	5180	112.49	-	-	101.95	34.3	11.29	35.05	110	122	P	V
	*	5180	105.26	-	-	94.72	34.3	11.29	35.05	110	122	A	V
		5134.42	50.92	-23.08	74	40.53	34.2	11.24	35.05	100	232	P	H
		5147.94	42.55	-11.45	54	32.01	34.3	11.29	35.05	100	232	A	H
	*	5220	106.39	-	-	95.77	34.33	11.34	35.05	100	232	P	H
	*	5220	99.05	-	-	88.43	34.33	11.34	35.05	100	232	A	H
802.11n		5371.52	49.95	-24.05	74	39.04	34.47	11.49	35.05	100	232	P	H
HT20		5354.44	40.72	-13.28	54	29.88	34.4	11.49	35.05	100	232	A	H
CH 44		5144.56	55.01	-18.99	74	44.47	34.3	11.29	35.05	105	124	P	V
5220MHz		5143	46.41	-7.59	54	35.87	34.3	11.29	35.05	105	124	A	V
	*	5220	112.4	-	-	101.78	34.33	11.34	35.05	105	124	P	V
	*	5220	105.15	-	-	94.53	34.33	11.34	35.05	105	124	A	V
		5353.88	52.23	-21.77	74	41.39	34.4	11.49	35.05	105	124	P	V
		5350.24	43.62	-10.38	54	32.78	34.4	11.49	35.05	105	124	A	V

		5131.82	51.62	-22.38	74	41.23	34.2	11.24	35.05	100	231	P	H
		5147.42	42.26	-11.74	54	31.72	34.3	11.29	35.05	100	231	A	H
	*	5240	106.6	-	-	95.9	34.37	11.38	35.05	100	231	P	H
	*	5240	99.32	-	-	88.62	34.37	11.38	35.05	100	231	A	H
802.11n		5408.76	50.2	-23.8	74	39.13	34.6	11.53	35.06	100	231	P	H
HT20		5352.48	41.52	-12.48	54	30.68	34.4	11.49	35.05	100	231	A	H
CH 48		5124.02	55.83	-18.17	74	45.44	34.2	11.24	35.05	124	122	P	V
5240MHz		5147.94	45.81	-8.19	54	35.27	34.3	11.29	35.05	124	122	A	V
	*	5240	112.8	-	-	102.1	34.37	11.38	35.05	124	122	P	V
	*	5240	105.55	-	-	94.85	34.37	11.38	35.05	124	122	A	V
		5392.52	53.5	-20.5	74	42.5	34.53	11.53	35.06	124	122	P	V
		5350.24	44.71	-9.29	54	33.87	34.4	11.49	35.05	124	122	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 (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	47.34	-20.86	68.2	52.17	37.33	17.42	59.58	100	0	P	H
		15540	58.62	-15.38	74	54.55	40.27	20.32	56.52	193	342	P	H
		15540	47.5	-6.5	54	43.43	40.27	20.32	56.52	193	342	A	H
		10360	46.9	-21.3	68.2	51.73	37.33	17.42	59.58	100	0	P	V
		15540	52.64	-21.36	74	48.57	40.27	20.32	56.52	321	35	P	V
		15540	42.28	-11.72	54	38.21	40.27	20.32	56.52	321	35	A	V
802.11n HT20 CH 44 5220MHz		10440	49.49	-18.71	68.2	54.18	37.4	17.45	59.54	100	0	P	H
		15660	63.94	-10.06	74	59.95	40.3	20.39	56.7	194	336	P	H
		15660	51.42	-2.58	54	47.43	40.3	20.39	56.7	194	336	A	H
		10440	48.81	-19.39	68.2	53.5	37.4	17.45	59.54	100	0	P	V
		15660	55.22	-18.78	74	51.23	40.3	20.39	56.7	308	26	P	V
		15660	43.89	-10.11	54	39.9	40.3	20.39	56.7	308	26	A	V
802.11n HT20 CH 48 5240MHz		10480	49.79	-18.41	68.2	54.43	37.4	17.46	59.5	100	0	P	H
		15720	64.29	-9.71	74	60.25	40.43	20.42	56.81	188	334	P	H
		15720	52.72	-1.28	54	48.68	40.43	20.42	56.81	188	334	A	H
		10480	48.57	-19.63	68.2	53.21	37.4	17.46	59.5	100	0	P	V
		15720	54.71	-19.29	74	50.67	40.43	20.42	56.81	312	26	P	V
		15720	44.11	-9.89	54	40.07	40.43	20.42	56.81	312	26	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.98	56.14	-17.86	74	45.6	34.3	11.29	35.05	103	231	P	H
		5148.72	46.33	-7.67	54	35.79	34.3	11.29	35.05	103	231	A	H
	*	5190	101.15	-	-	90.56	34.3	11.34	35.05	103	231	P	H
	*	5190	94	-	-	83.41	34.3	11.34	35.05	103	231	A	H
		5444.88	49.59	-24.41	74	38.42	34.67	11.56	35.06	103	231	P	H
		5353.6	41.27	-12.73	54	30.43	34.4	11.49	35.05	103	231	A	H
		5147.68	60.06	-13.94	74	49.52	34.3	11.29	35.05	125	123	P	V
		5150	52.64	-1.36	54	42.1	34.3	11.29	35.05	125	123	A	V
	*	5190	107.12	-	-	96.53	34.3	11.34	35.05	125	123	P	V
	*	5190	99.99	-	-	89.4	34.3	11.34	35.05	125	123	A	V
		5447.12	51.15	-22.85	74	39.95	34.7	11.56	35.06	125	123	P	V
		5350	42.8	-11.2	54	31.96	34.4	11.49	35.05	125	123	A	V
802.11n HT40 CH 46 5230MHz		5146.64	51.84	-22.16	74	41.3	34.3	11.29	35.05	100	230	P	H
		5149.76	44.22	-9.78	54	33.68	34.3	11.29	35.05	100	230	A	H
	*	5230	103.39	-	-	92.69	34.37	11.38	35.05	100	230	P	H
	*	5230	96.19	-	-	85.49	34.37	11.38	35.05	100	230	A	H
		5393.08	49.86	-24.14	74	38.86	34.53	11.53	35.06	100	230	P	H
		5352.2	41.8	-12.2	54	30.96	34.4	11.49	35.05	100	230	A	H
		5140.66	56.26	-17.74	74	45.72	34.3	11.29	35.05	113	123	P	V
		5148.2	48.06	-5.94	54	37.52	34.3	11.29	35.05	113	123	A	V
	*	5230	109.32	-	-	98.62	34.37	11.38	35.05	113	123	P	V
	*	5230	102.15	-	-	91.45	34.37	11.38	35.05	113	123	A	V
		5362.56	53.73	-20.27	74	42.82	34.47	11.49	35.05	113	123	P	V
		5350	45.71	-8.29	54	34.87	34.4	11.49	35.05	113	123	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	47.07	-21.13	68.2	51.85	37.37	17.42	59.57	100	0	P	H
		15570	49.94	-24.06	74	45.93	40.23	20.35	56.57	100	0	P	H
		10380	47.09	-21.11	68.2	51.87	37.37	17.42	59.57	100	0	P	V
		15570	49.54	-24.46	74	45.53	40.23	20.35	56.57	100	0	P	V
802.11n HT40 CH 46 5230MHz		10460	47.45	-20.75	68.2	52.12	37.4	17.45	59.52	100	0	P	H
		15690	59.19	-14.81	74	55.17	40.37	20.4	56.75	187	341	P	H
		15690	50.55	-3.45	54	46.53	40.37	20.4	56.75	187	341	A	H
		10460	47.54	-20.66	68.2	52.21	37.4	17.45	59.52	100	0	P	V
		15690	49.89	-24.11	74	45.87	40.37	20.4	56.75	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.2	53.01	-20.99	74	42.47	34.3	11.29	35.05	100	231	P	H
		5146.38	46.9	-7.1	54	36.36	34.3	11.29	35.05	100	231	A	H
	*	5210	94.03	-	-	83.41	34.33	11.34	35.05	100	231	P	H
	*	5210	86.65	-	-	76.03	34.33	11.34	35.05	100	231	A	H
802.11ac		5407.64	49.02	-24.98	74	37.95	34.6	11.53	35.06	100	231	P	H
VHT80		5398.12	42.26	-11.74	54	31.19	34.6	11.53	35.06	100	231	A	H
CH 42		5137.54	59.08	-14.92	74	48.69	34.2	11.24	35.05	100	121	P	V
5210MHz		5149.5	53.41	-0.59	54	42.87	34.3	11.29	35.05	100	121	A	V
	*	5210	99.46	-	-	88.84	34.33	11.34	35.05	100	121	P	V
	*	5210	92.93	-	-	82.31	34.33	11.34	35.05	100	121	A	V
		5357.24	49.43	-24.57	74	38.59	34.4	11.49	35.05	100	121	P	V
		5354.44	45.34	-8.66	54	34.5	34.4	11.49	35.05	100	121	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10420	47.88	-20.32	68.2	52.6	37.4	17.43	59.55	100	0	P	H
VHT80		15630	49.16	-24.84	74	45.18	40.27	20.39	56.68	100	0	P	H
CH 42		10420	47.9	-20.3	68.2	52.62	37.4	17.43	59.55	100	0	P	V
5210MHz		15630	49.1	-24.9	74	45.12	40.27	20.39	56.68	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		30.27	34.54	-5.46	40	38.6	24.6	1.32	29.98	100	0	P	H
		40.53	33.7	-6.3	40	43.55	18.81	1.33	29.99	-	-	P	H
		50.25	29.82	-10.18	40	44.23	14.25	1.33	29.99	-	-	P	H
		863.5	32.67	-13.33	46	27.79	29.01	4.93	29.06	-	-	P	H
		933.5	33.78	-12.22	46	27.86	29.59	5.01	28.68	-	-	P	H
		951	34.14	-11.86	46	27.22	30.39	5.08	28.55	-	-	P	H
		30.27	34.18	-5.82	40	38.24	24.6	1.32	29.98	100	0	P	V
		61.59	29.63	-10.37	40	46.05	11.87	1.7	29.99	-	-	P	V
		117.48	33.41	-10.09	43.5	44.04	17.33	2.01	29.97	-	-	P	V
		745.2	31.83	-14.17	46	29.1	27.72	4.46	29.45	-	-	P	V
		854.4	31.93	-14.07	46	27.37	28.88	4.77	29.09	-	-	P	V
		954.5	35.56	-10.44	46	28.42	30.59	5.08	28.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	60.57	-13.43	74	50.03	34.3	11.29	35.05	100	270	P	H
		5150	48.49	-5.51	54	37.95	34.3	11.29	35.05	100	270	A	H
	*	5180	110.25	-	-	99.71	34.3	11.29	35.05	100	270	P	H
	*	5180	102.78	-	-	92.24	34.3	11.29	35.05	100	270	A	H
		5145.6	51.8	-22.2	74	41.26	34.3	11.29	35.05	374	186	P	V
		5150	43.09	-10.91	54	32.55	34.3	11.29	35.05	374	186	A	V
	*	5180	104.34	-	-	93.8	34.3	11.29	35.05	374	186	P	V
	*	5180	97.01	-	-	86.47	34.3	11.29	35.05	374	186	A	V
802.11a CH 44 5220MHz		5130.52	54.83	-19.17	74	44.44	34.2	11.24	35.05	109	268	P	H
		5134.68	45.21	-8.79	54	34.82	34.2	11.24	35.05	109	268	A	H
	*	5220	110.23	-	-	99.61	34.33	11.34	35.05	109	268	P	H
	*	5220	102.81	-	-	92.19	34.33	11.34	35.05	109	268	A	H
		5352.48	52.17	-21.83	74	41.33	34.4	11.49	35.05	109	268	P	H
		5351.64	44.66	-9.34	54	33.82	34.4	11.49	35.05	109	268	A	H
		5105.04	50.75	-23.25	74	40.55	34	11.24	35.04	368	188	P	V
		5108.94	41.73	-12.27	54	31.43	34.1	11.24	35.04	368	188	A	V
	*	5220	104.06	-	-	93.44	34.33	11.34	35.05	368	188	P	V
	*	5220	96.6	-	-	85.98	34.33	11.34	35.05	368	188	A	V
		5355.84	49.85	-24.15	74	39.01	34.4	11.49	35.05	368	188	P	V
		5350.8	41.14	-12.86	54	30.3	34.4	11.49	35.05	368	188	A	V

802.11a CH 48 5240MHz		5150	53.85	-20.15	74	43.31	34.3	11.29	35.05	103	268	P	H
		5148.98	44.7	-9.3	54	34.16	34.3	11.29	35.05	103	268	A	H
	*	5240	110.29	-	-	99.59	34.37	11.38	35.05	103	268	P	H
	*	5240	103.06	-	-	92.36	34.37	11.38	35.05	103	268	A	H
		5363.96	53.2	-20.8	74	42.29	34.47	11.49	35.05	103	268	P	H
		5350	45.57	-8.43	54	34.73	34.4	11.49	35.05	103	268	A	H
		5102.96	50.61	-23.39	74	40.41	34	11.24	35.04	349	186	P	V
		5109.2	41.34	-12.66	54	31.04	34.1	11.24	35.04	349	186	A	V
	*	5240	104.91	-	-	94.21	34.37	11.38	35.05	349	186	P	V
	*	5240	97.15	-	-	86.45	34.37	11.38	35.05	349	186	A	V
		5369.28	50.25	-23.75	74	39.34	34.47	11.49	35.05	349	186	P	V
		5356.68	41.29	-12.71	54	30.45	34.4	11.49	35.05	349	186	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	46.54	-21.66	68.2	51.37	37.33	17.42	59.58	100	0	P	H
		15540	61.34	-12.66	74	57.27	40.27	20.32	56.52	191	337	P	H
		15540	50.91	-3.09	54	46.84	40.27	20.32	56.52	191	337	A	H
		10360	48.09	-20.11	68.2	52.92	37.33	17.42	59.58	100	0	P	V
		15540	58.08	-15.92	74	54.01	40.27	20.32	56.52	100	334	P	V
		15540	46.09	-7.91	54	42.02	40.27	20.32	56.52	100	334	A	V
802.11a CH 44 5220MHz		10440	48.7	-19.5	68.2	53.39	37.4	17.45	59.54	100	0	P	H
		15660	59.6	-14.4	74	55.61	40.3	20.39	56.7	100	255	P	H
		15660	47.76	-6.24	54	43.77	40.3	20.39	56.7	100	255	A	H
		10440	49.81	-18.39	68.2	54.5	37.4	17.45	59.54	100	0	P	V
		15660	54.07	-19.93	74	50.08	40.3	20.39	56.7	400	249	P	V
		15660	43.7	-10.3	54	39.71	40.3	20.39	56.7	400	249	A	V
802.11a CH 48 5240MHz		10480	47.7	-20.5	68.2	52.34	37.4	17.46	59.5	100	0	P	H
		15720	60.73	-13.27	74	56.69	40.43	20.42	56.81	100	257	P	H
		15720	48.07	-5.93	54	44.03	40.43	20.42	56.81	100	257	A	H
		10480	49.46	-18.74	68.2	54.1	37.4	17.46	59.5	100	0	P	V
		15720	55.84	-18.16	74	51.8	40.43	20.42	56.81	400	137	P	V
		15720	44.79	-9.21	54	40.75	40.43	20.42	56.81	400	137	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.72	62.49	-11.51	74	51.95	34.3	11.29	35.05	104	270	P	H
		5150	47.86	-6.14	54	37.32	34.3	11.29	35.05	104	270	A	H
802.11n	*	5180	108.89	-	-	98.35	34.3	11.29	35.05	104	270	P	H
HT20	*	5180	101.56	-	-	91.02	34.3	11.29	35.05	104	270	A	H
CH 36		5147.16	53.86	-20.14	74	43.32	34.3	11.29	35.05	374	187	P	V
5180MHz		5150	42.72	-11.28	54	32.18	34.3	11.29	35.05	374	187	A	V
	*	5180	103.2	-	-	92.66	34.3	11.29	35.05	374	187	P	V
	*	5180	95.83	-	-	85.29	34.3	11.29	35.05	374	187	A	V
		5092.04	54.02	-19.98	74	43.88	34	11.18	35.04	111	269	P	H
		5127.14	45.43	-8.57	54	35.04	34.2	11.24	35.05	111	269	A	H
	*	5220	108.59	-	-	97.97	34.33	11.34	35.05	111	269	P	H
	*	5220	101.41	-	-	90.79	34.33	11.34	35.05	111	269	A	H
802.11n		5354.72	52.99	-21.01	74	42.15	34.4	11.49	35.05	111	269	P	H
HT20		5351.36	44.59	-9.41	54	33.75	34.4	11.49	35.05	111	269	A	H
CH 44		5112.84	51.97	-22.03	74	41.67	34.1	11.24	35.04	369	187	P	V
5220MHz		5108.68	41.72	-12.28	54	31.42	34.1	11.24	35.04	369	187	A	V
	*	5220	102.54	-	-	91.92	34.33	11.34	35.05	369	187	P	V
	*	5220	95.25	-	-	84.63	34.33	11.34	35.05	369	187	A	V
		5366.76	49.5	-24.5	74	38.59	34.47	11.49	35.05	369	187	P	V
		5350.8	41.08	-12.92	54	30.24	34.4	11.49	35.05	369	187	A	V

		5122.98	54.02	-19.98	74	43.63	34.2	11.24	35.05	100	269	P	H
		5140.14	44.93	-9.07	54	34.39	34.3	11.29	35.05	100	269	A	H
	*	5240	109.08	-	-	98.38	34.37	11.38	35.05	100	269	P	H
	*	5240	101.72	-	-	91.02	34.37	11.38	35.05	100	269	A	H
802.11n		5353.32	55.41	-18.59	74	44.57	34.4	11.49	35.05	100	269	P	H
HT20		5354.44	45.46	-8.54	54	34.62	34.4	11.49	35.05	100	269	A	H
CH 48		5146.64	49.66	-24.34	74	39.12	34.3	11.29	35.05	348	185	P	V
5240MHz		5112.06	41.62	-12.38	54	31.32	34.1	11.24	35.04	348	185	A	V
	*	5240	103.44	-	-	92.74	34.37	11.38	35.05	348	185	P	V
	*	5240	96.13	-	-	85.43	34.37	11.38	35.05	348	185	A	V
		5360.88	50.66	-23.34	74	39.75	34.47	11.49	35.05	348	185	P	V
		5359.2	41.31	-12.69	54	30.47	34.4	11.49	35.05	348	185	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	46.11	-22.09	68.2	50.94	37.33	17.42	59.58	100	0	P	H
		15540	49.85	-24.15	74	45.78	40.27	20.32	56.52	100	0	P	H
		10360	45.88	-22.32	68.2	50.71	37.33	17.42	59.58	100	0	P	V
		15540	57.84	-16.16	74	53.77	40.27	20.32	56.52	100	129	P	V
		15540	44.32	-9.68	54	40.25	40.27	20.32	56.52	100	129	A	V
802.11n HT20 CH 44 5220MHz		10440	49.07	-19.13	68.2	53.76	37.4	17.45	59.54	100	0	P	H
		15660	57.25	-16.75	74	53.26	40.3	20.39	56.7	100	137	P	H
		15660	44.53	-9.47	54	40.54	40.3	20.39	56.7	100	137	A	H
		10440	47.49	-20.71	68.2	52.18	37.4	17.45	59.54	100	0	P	V
		15660	65.38	-8.62	74	61.39	40.3	20.39	56.7	100	139	P	V
		15660	51.85	-2.15	54	47.86	40.3	20.39	56.7	100	139	A	V
802.11n HT20 CH 48 5240MHz		10480	48.47	-19.73	68.2	53.11	37.4	17.46	59.5	100	0	P	H
		15720	57.12	-16.88	74	53.08	40.43	20.42	56.81	104	137	P	H
		15720	44.74	-9.26	54	40.7	40.43	20.42	56.81	104	137	A	H
		10480	47.24	-20.96	68.2	51.88	37.4	17.46	59.5	100	0	P	V
		15720	64.94	-9.06	74	60.9	40.43	20.42	56.81	100	198	P	V
		15720	51.57	-2.43	54	47.53	40.43	20.42	56.81	100	198	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.76	62.35	-11.65	74	51.81	34.3	11.29	35.05	100	270	P	H
		5149.76	53.05	-0.95	54	42.51	34.3	11.29	35.05	100	270	P	H
	*	5190	103.68	-	-	93.09	34.3	11.34	35.05	100	270	P	H
	*	5190	95.18	-	-	84.59	34.3	11.34	35.05	100	270	A	H
		5354.16	51.94	-22.06	74	41.1	34.4	11.49	35.05	100	270	P	H
		5350	43.63	-10.37	54	32.79	34.4	11.49	35.05	100	270	A	H
		5149.24	54.11	-19.89	74	43.57	34.3	11.29	35.05	358	175	P	V
		5150.02	46.53	-103.47	150	35.99	34.3	11.29	35.05	358	175	A	V
	*	5190	98.76	-	-	88.17	34.3	11.34	35.05	358	175	P	V
	*	5190	93.72	-	-	83.13	34.3	11.34	35.05	358	175	A	V
		5418.56	49.71	-24.29	74	38.61	34.63	11.53	35.06	358	175	P	V
		5431.16	41.17	-12.83	54	30	34.67	11.56	35.06	358	175	A	V
802.11n HT40 CH 46 5230MHz		5136.24	54.44	-19.56	74	44.05	34.2	11.24	35.05	100	269	P	H
		5146.64	45.77	-8.23	54	35.23	34.3	11.29	35.05	100	269	A	H
	*	5230	104.84	-	-	94.14	34.37	11.38	35.05	100	269	P	H
	*	5230	98.67	-	-	87.97	34.37	11.38	35.05	100	269	A	H
		5352.48	53.16	-20.84	74	42.32	34.4	11.49	35.05	100	269	P	H
		5350	45.94	-8.06	54	35.1	34.4	11.49	35.05	100	269	A	H
		5067.34	50.44	-23.56	74	40.23	34.07	11.18	35.04	396	170	P	V
		5139.36	41.91	-12.09	54	31.52	34.2	11.24	35.05	396	170	A	V
	*	5230	99.5	-	-	88.8	34.37	11.38	35.05	396	170	P	V
	*	5230	91.42	-	-	80.72	34.37	11.38	35.05	396	170	A	V
		5449.92	50.65	-23.35	74	39.45	34.7	11.56	35.06	396	170	P	V
		5350.24	41.9	-12.1	54	31.06	34.4	11.49	35.05	396	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	46.89	-21.31	68.2	51.67	37.37	17.42	59.57	100	0	P	H
		15570	49.76	-24.24	74	45.75	40.23	20.35	56.57	100	0	P	H
		10380	46.76	-21.44	68.2	51.54	37.37	17.42	59.57	100	0	P	V
		15570	49.9	-24.1	74	45.89	40.23	20.35	56.57	100	0	P	V
802.11n HT40 CH 46 5230MHz		10460	47.17	-21.03	68.2	51.84	37.4	17.45	59.52	100	0	P	H
		15690	49.9	-24.1	74	45.88	40.37	20.4	56.75	100	0	P	H
		10460	46.44	-21.76	68.2	51.11	37.4	17.45	59.52	100	0	P	V
		15690	59.16	-14.84	74	55.14	40.37	20.4	56.75	100	201	P	V
		15690	46.22	-7.78	54	42.2	40.37	20.4	56.75	100	201	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 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5142.74	66.28	-7.72	74	55.74	34.3	11.29	35.05	100	291	P	H
		5143.52	53.41	-0.59	54	42.87	34.3	11.29	35.05	100	291	P	H
	*	5210	99.49	-	-	88.87	34.33	11.34	35.05	100	291	P	H
	*	5210	92.8	-	-	82.18	34.33	11.34	35.05	100	291	A	H
		5360.04	51.27	-22.73	74	40.43	34.4	11.49	35.05	100	291	P	H
		5350.8	50.19	-3.81	54	39.35	34.4	11.49	35.05	100	291	A	H
		5129.48	50.35	-23.65	74	39.96	34.2	11.24	35.05	400	6	P	V
		5102.18	44.51	-9.49	54	34.31	34	11.24	35.04	400	6	A	V
	*	5210	93.81	-	-	83.19	34.33	11.34	35.05	400	6	P	V
	*	5210	87.13	-	-	76.51	34.33	11.34	35.05	400	6	A	V
		5350	49.75	-24.25	74	38.91	34.4	11.49	35.05	400	6	P	V
		5368.16	44.21	-9.79	54	33.3	34.47	11.49	35.05	400	6	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	47.81	-20.39	68.2	52.53	37.4	17.43	59.55	100	0	P	H
		15630	55.44	-18.56	74	51.46	40.27	20.39	56.68	144	356	P	H
		15630	47.81	-6.19	54	43.83	40.27	20.39	56.68	144	356	A	H
		10420	46.96	-21.24	68.2	51.68	37.4	17.43	59.55	100	0	P	V
		15630	49.71	-24.29	74	45.73	40.27	20.39	56.68	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		30.27	34.84	-5.16	40	38.9	24.6	1.32	29.98	100	0	P	H
		43.23	30.97	-9.03	40	42.4	17.23	1.33	29.99	-	-	P	H
		116.94	34.94	-8.56	43.5	45.56	17.33	2.02	29.97	-	-	P	H
		876.8	32.75	-13.25	46	27.9	28.92	4.94	29.01	-	-	P	H
		913.9	32.76	-13.24	46	27.56	29.02	5.01	28.83	-	-	P	H
		953.1	34.48	-11.52	46	27.4	30.54	5.08	28.54	-	-	P	H
		30	33.48	-6.52	40	37.54	24.6	1.32	29.98	100	0	P	V
		40.8	31.4	-8.6	40	41.25	18.81	1.33	29.99	-	-	P	V
		117.48	33.2	-10.3	43.5	43.83	17.33	2.01	29.97	-	-	P	V
		804.7	31.01	-14.99	46	27.75	27.91	4.61	29.26	-	-	P	V
		871.9	32.19	-13.81	46	27.34	28.95	4.93	29.03	-	-	P	V
		958.7	34.39	-11.61	46	27.01	30.8	5.08	28.5	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(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(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

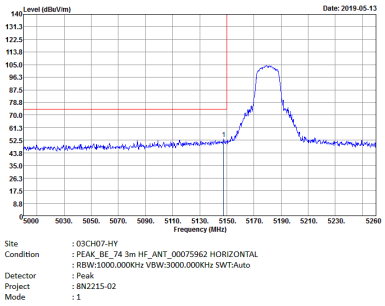
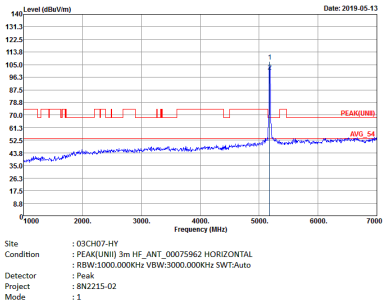
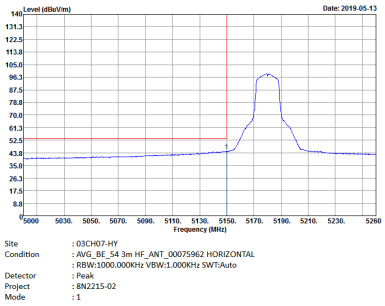
Test Engineer :	Jesse Wang, Stan Hsieh and Troye Hsieh	**Temperature :**	20~26°C
		Relative Humidity :	50~56%

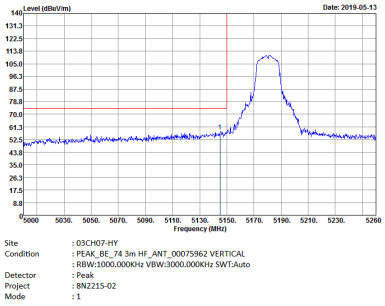
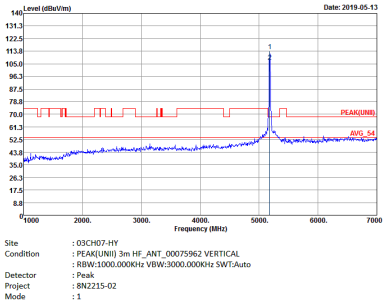
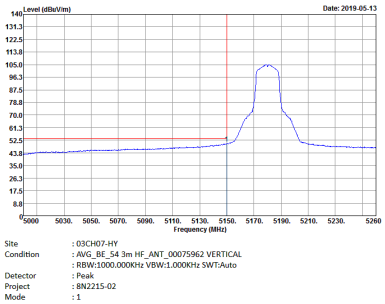
Note symbol

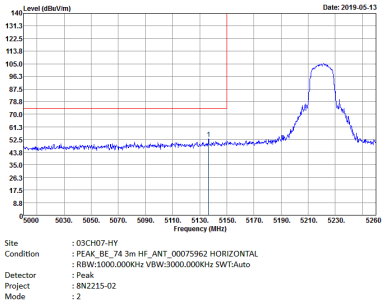
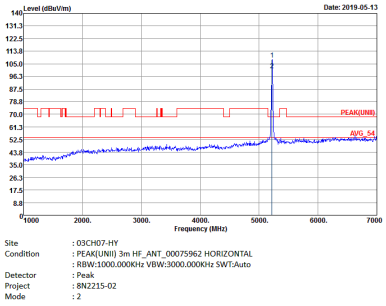
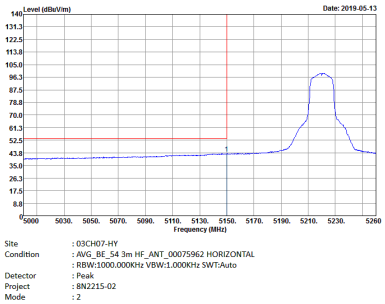
-L	**Low channel location**
-R	**High channel location**

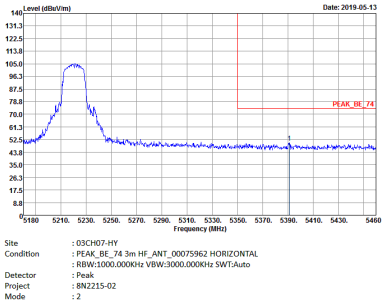
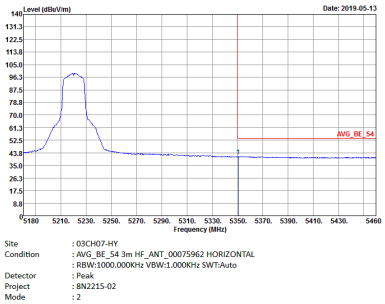
Band 1 - 5150~5250MHz

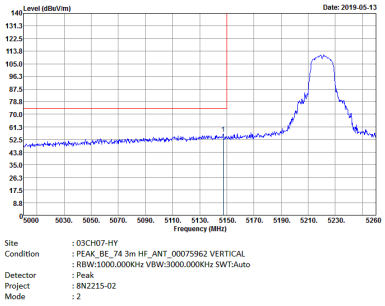
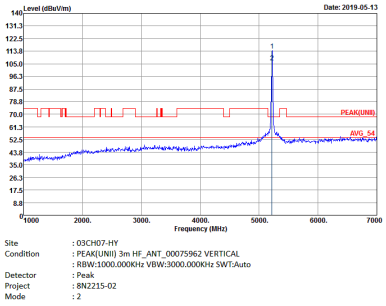
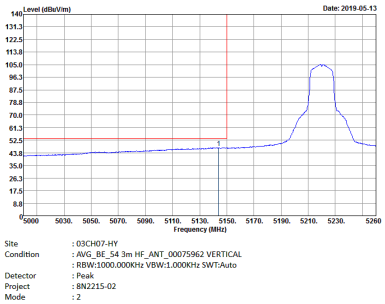
WIFI 802.11a (Band Edge @ 3m)

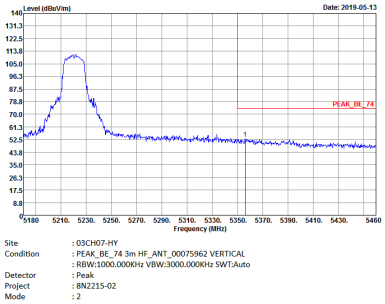
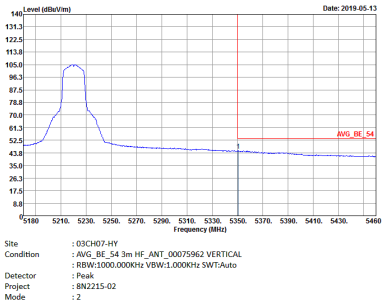
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

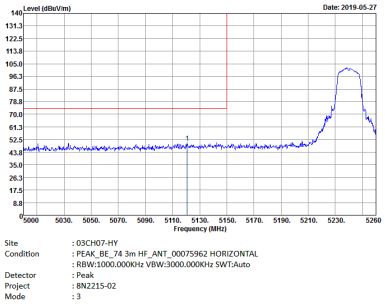
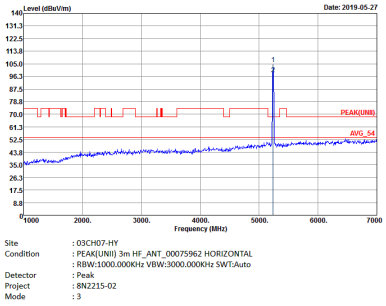
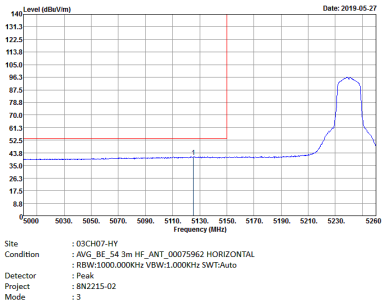
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

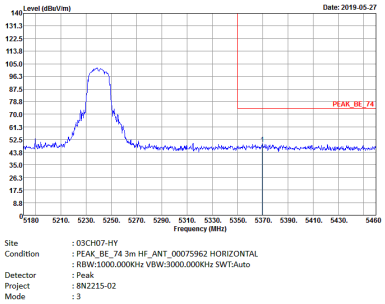
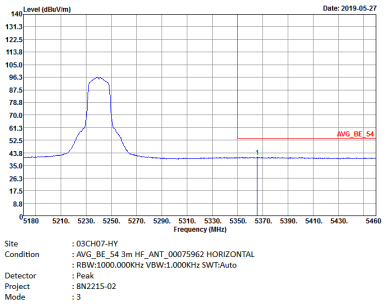
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

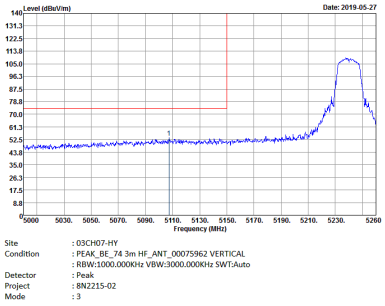
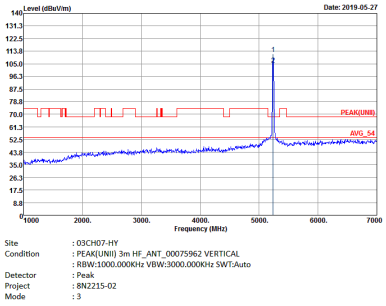
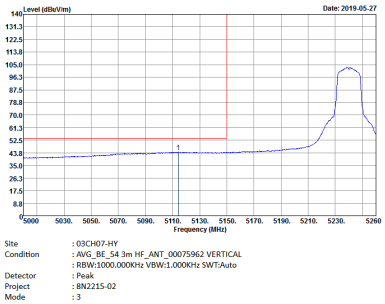
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

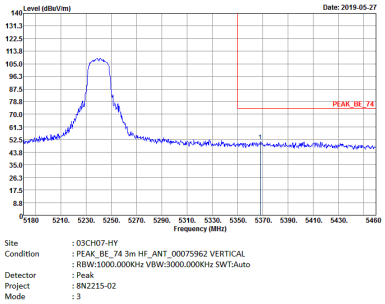
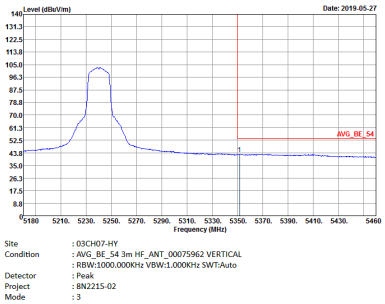
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

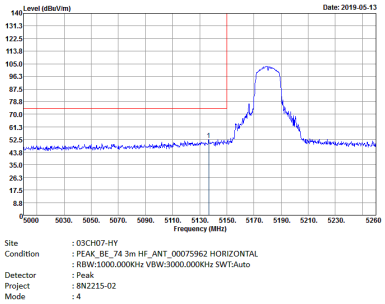
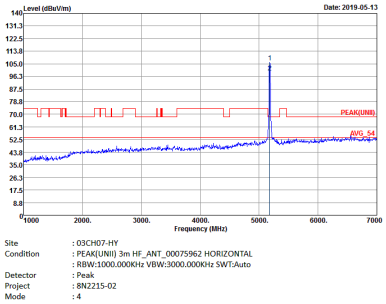
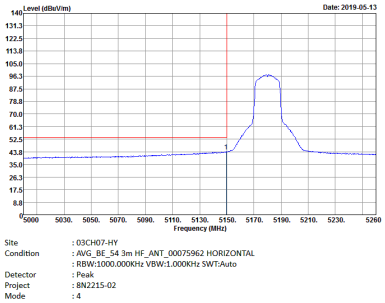
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

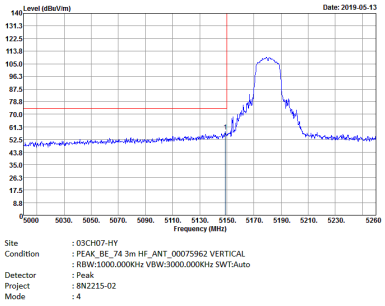
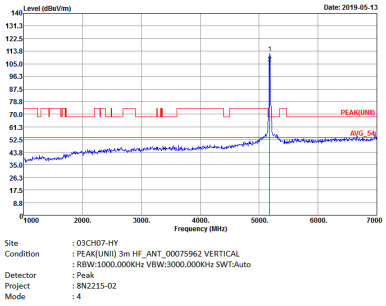
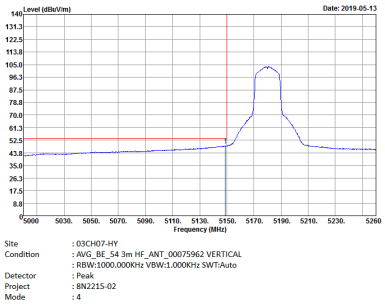
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

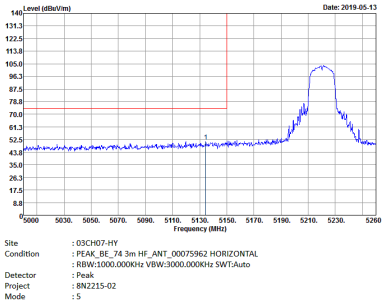
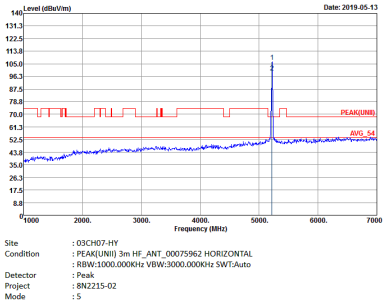
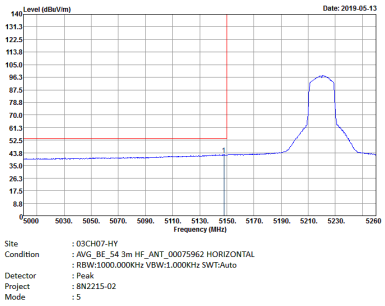
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

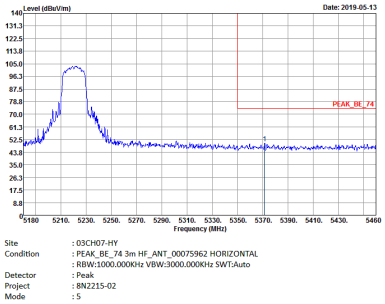
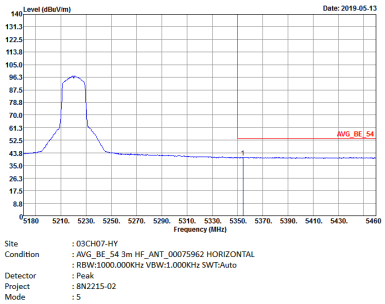
Band 1 5150~5250MHz

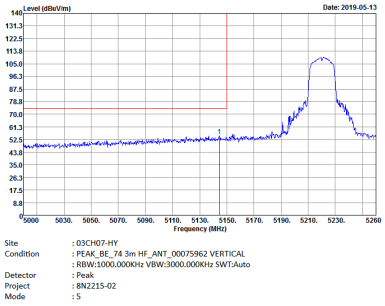
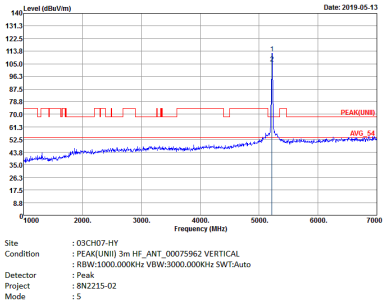
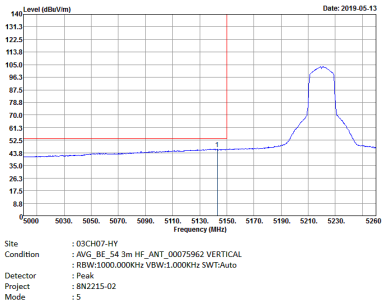
WIFI 802.11n HT20 (Band Edge @ 3m)

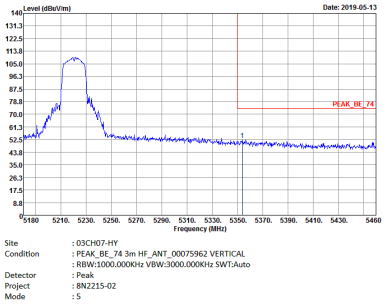
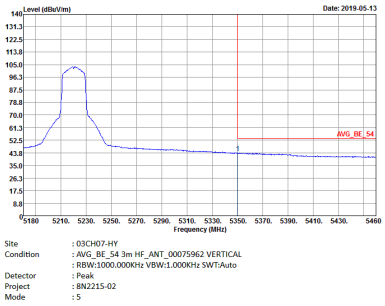
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

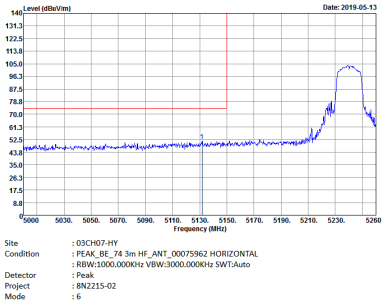
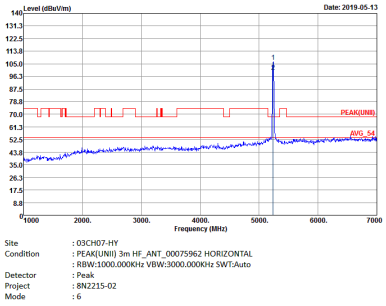
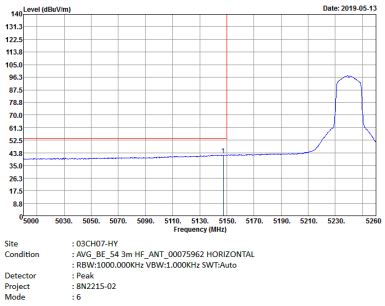
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

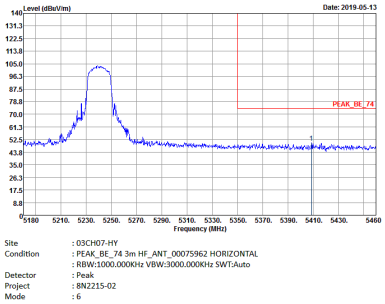
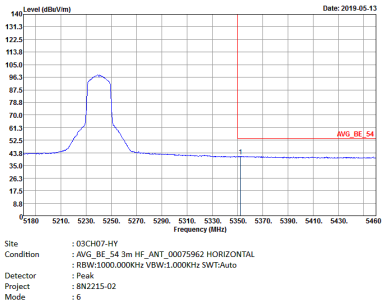
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

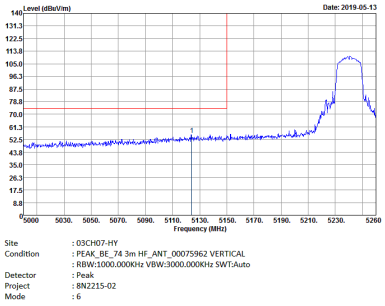
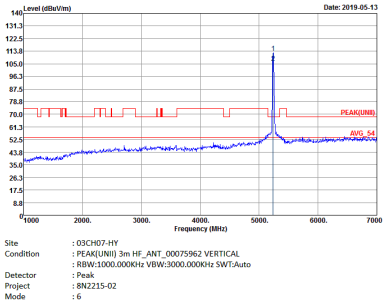
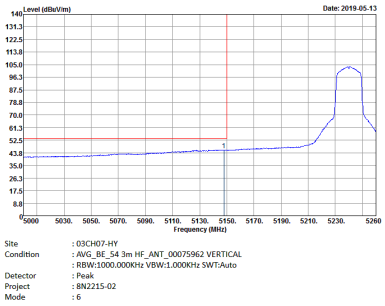
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

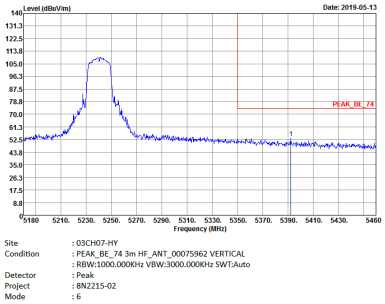
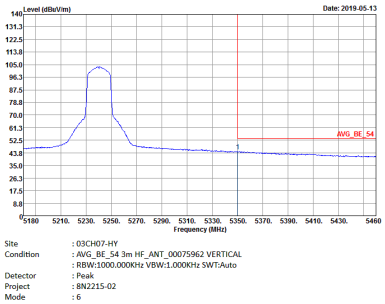
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

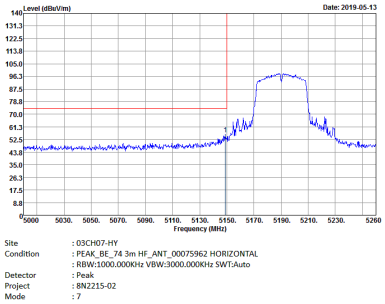
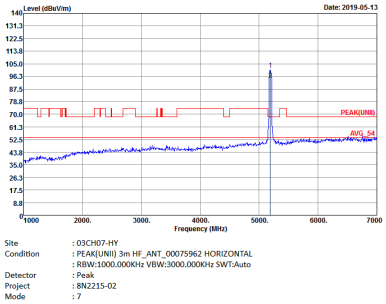
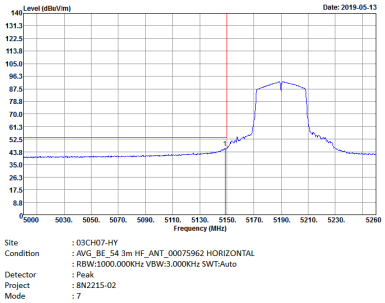
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

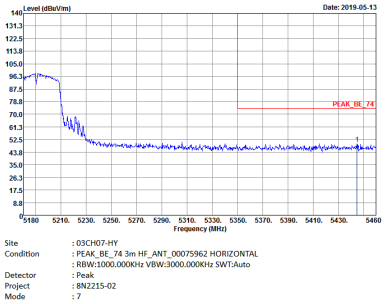
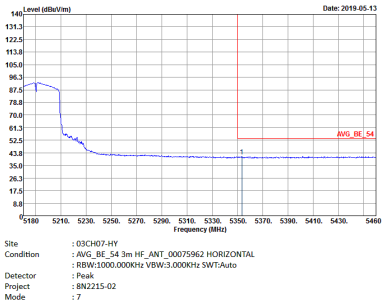
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

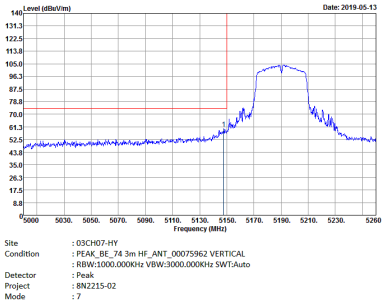
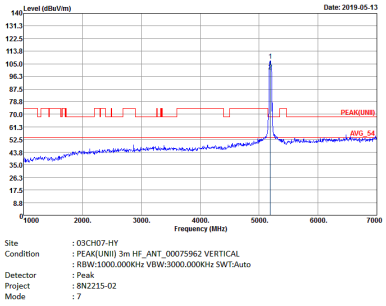
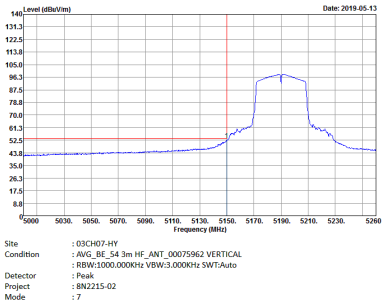
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

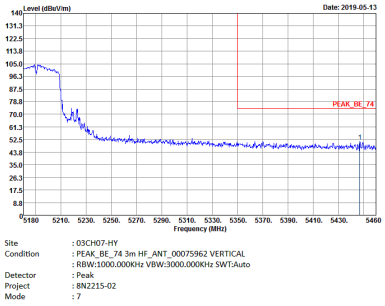
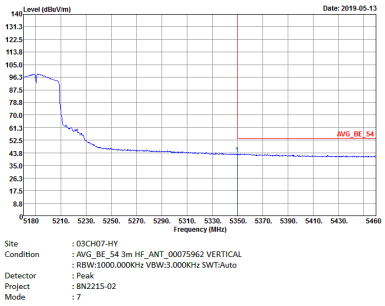
Band 1 5150~5250MHz

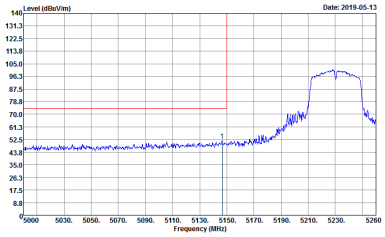
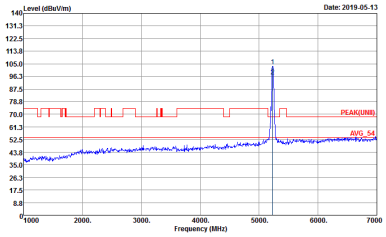
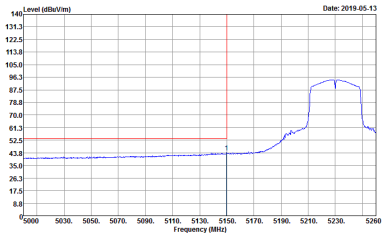
WIFI 802.11n HT40 (Band Edge @ 3m)

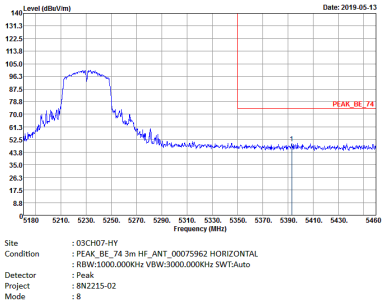
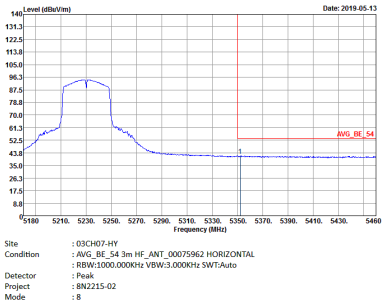
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

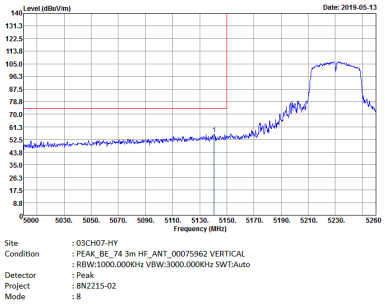
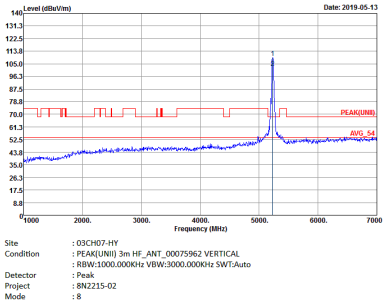
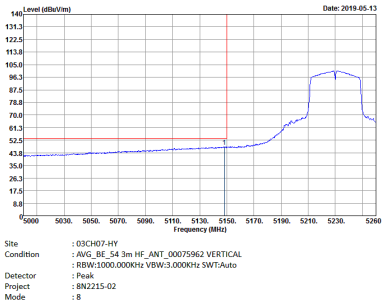
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

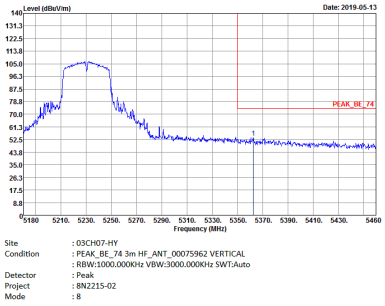
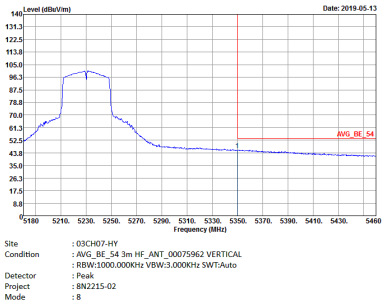
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	Left blank

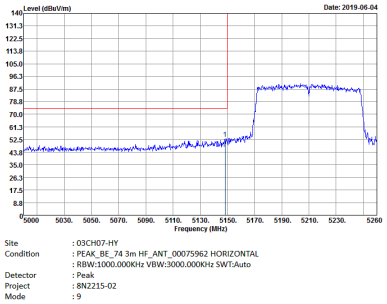
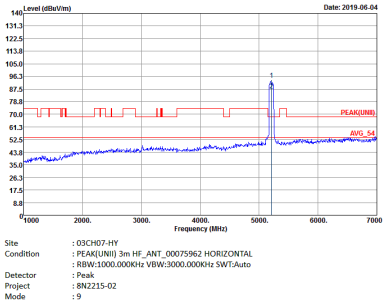
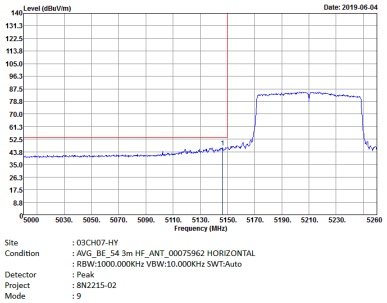
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

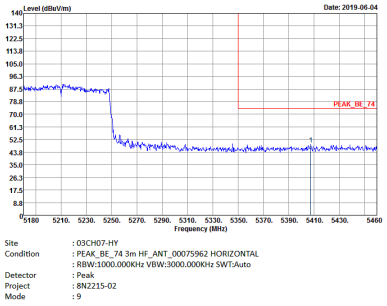
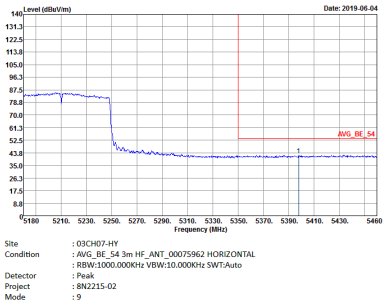
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

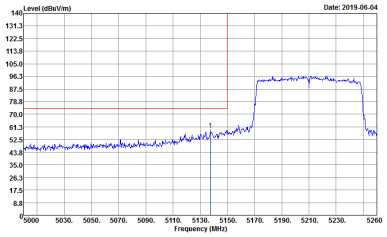
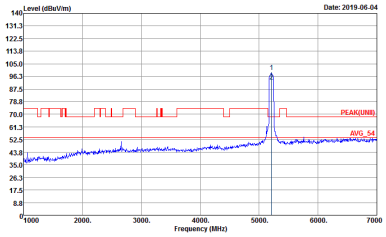
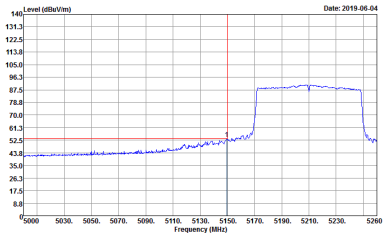
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

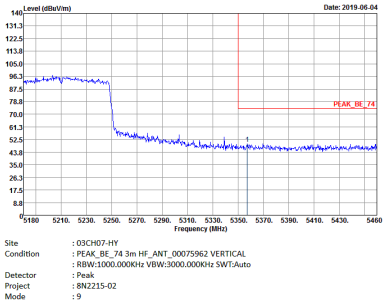
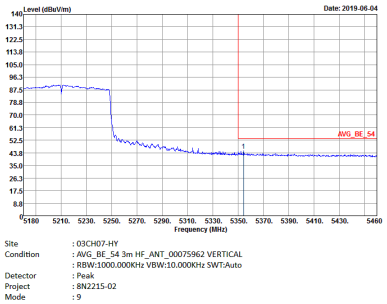
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

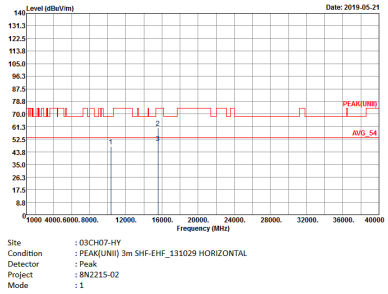
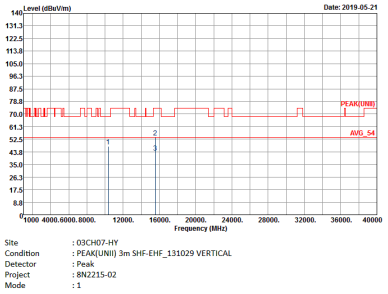
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

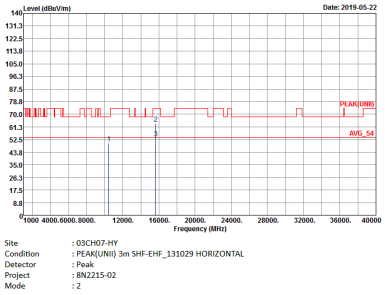
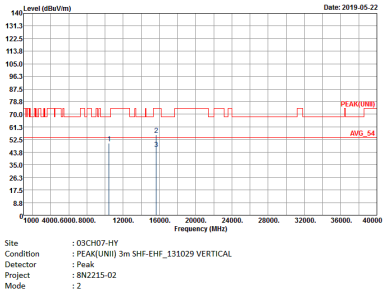
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	Left blank

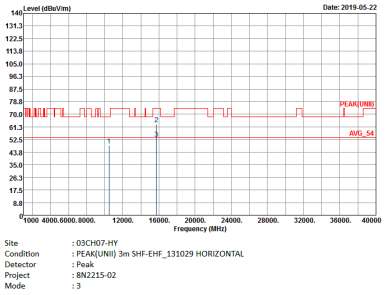
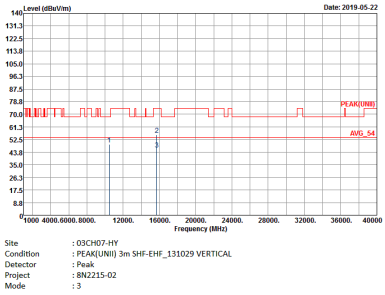
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

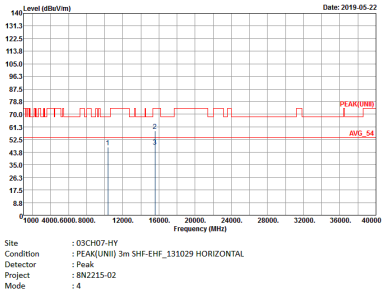
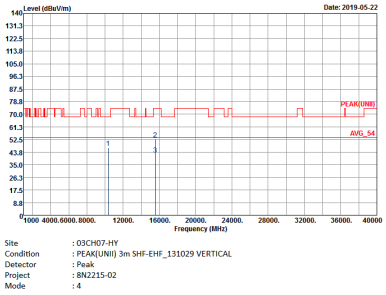
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

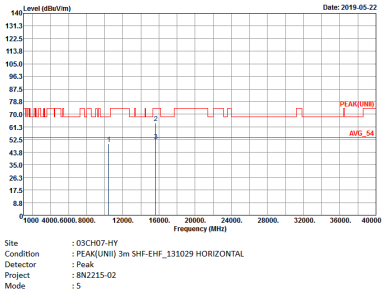
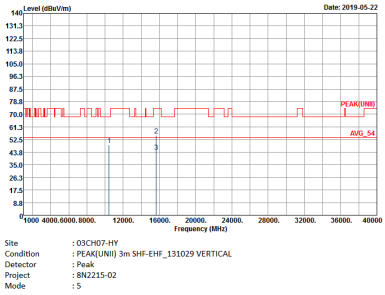
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 2	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 2

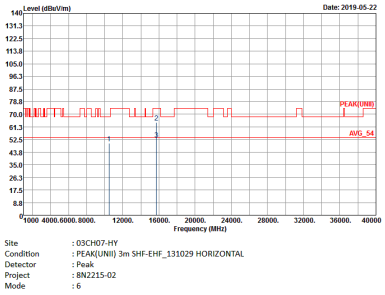
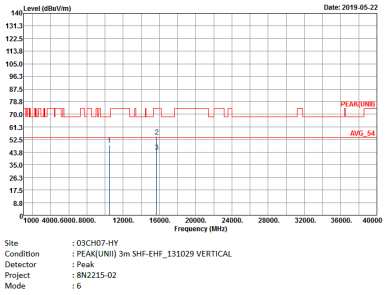
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 3	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 3

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

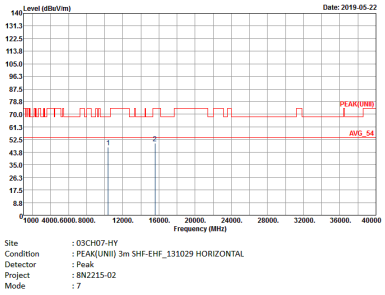
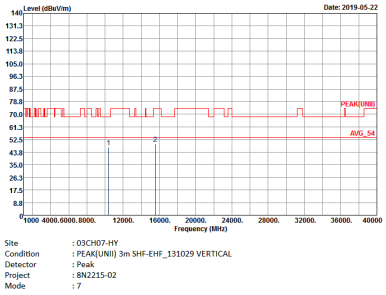
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

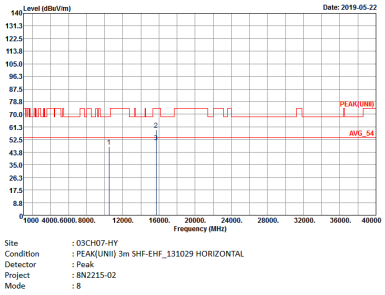
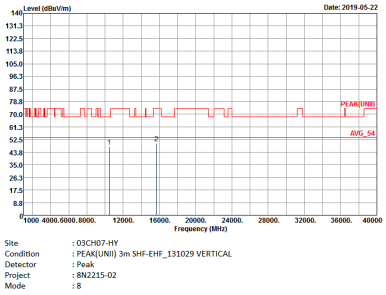
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 5

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 6	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 6

Band 1 5150~5250MHz

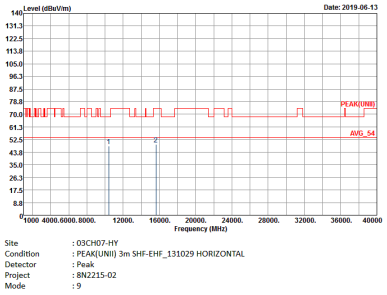
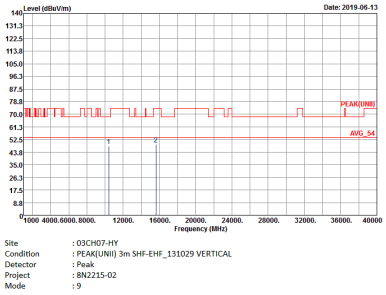
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 8

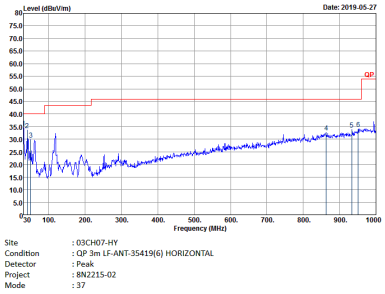
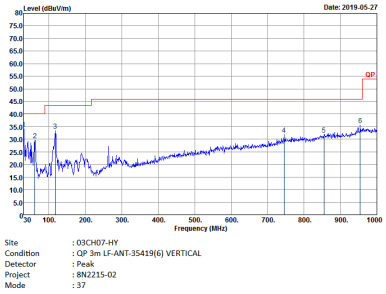
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

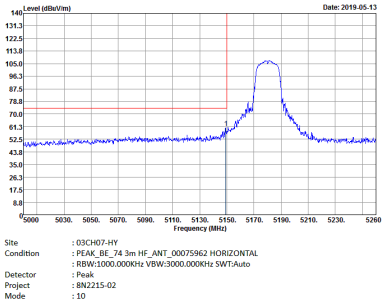
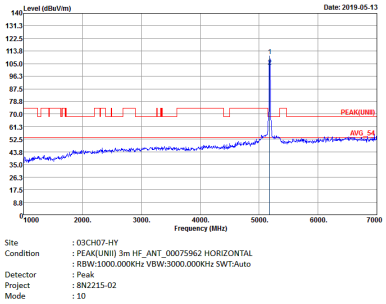
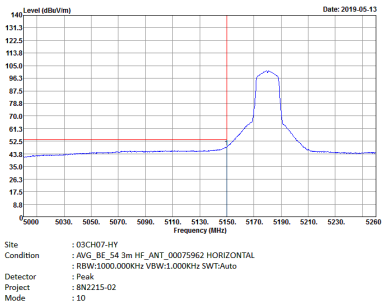
Emission below 1GHz

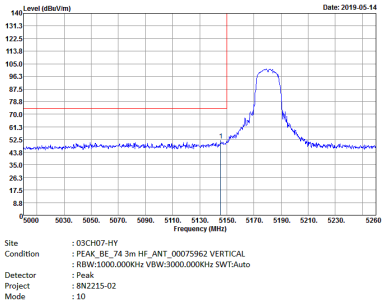
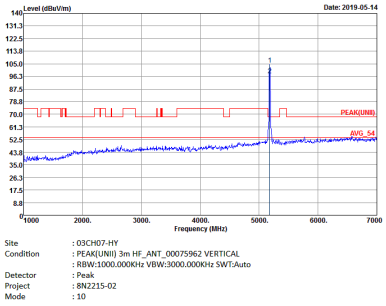
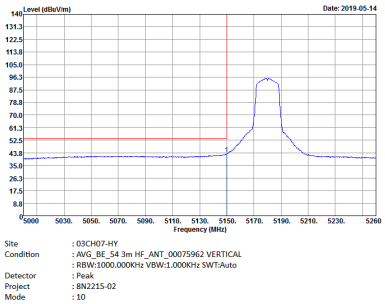
5GHz WIFI 802.11ac VHT80 (LF)

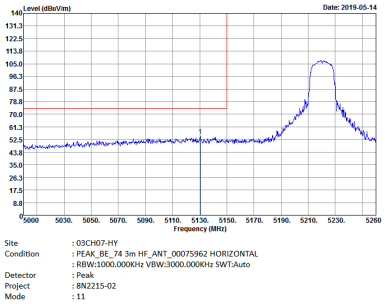
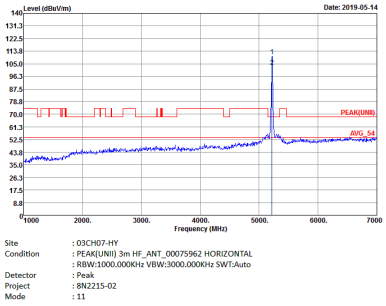
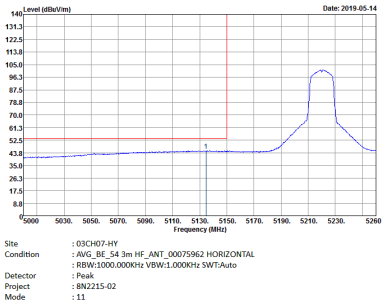
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

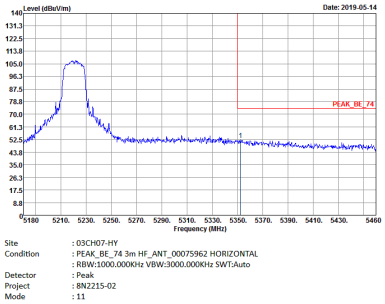
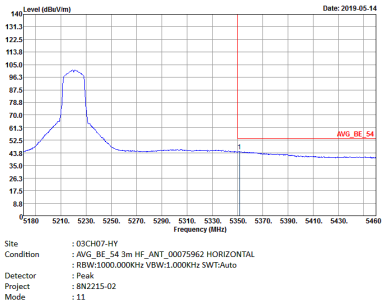
Band 1 - 5150~5250MHz

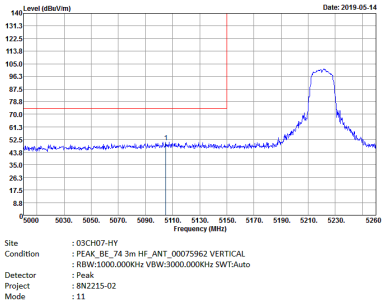
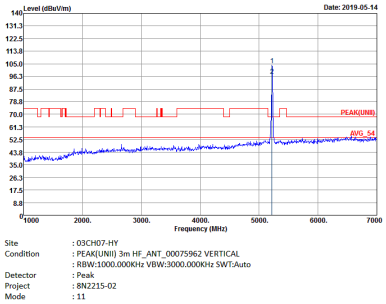
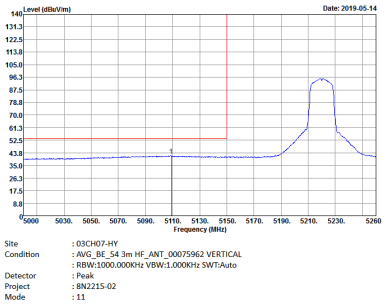
WIFI 802.11a (Band Edge @ 3m)

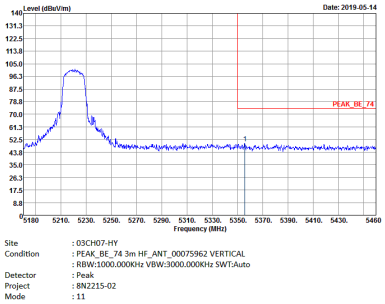
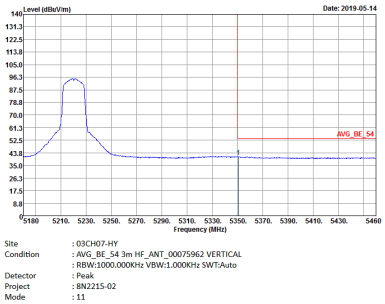
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

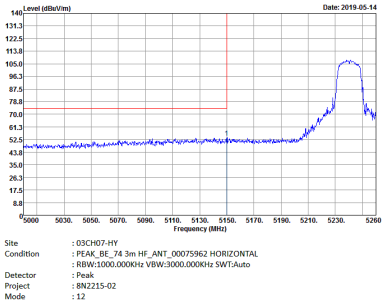
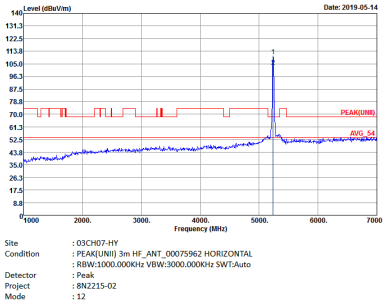
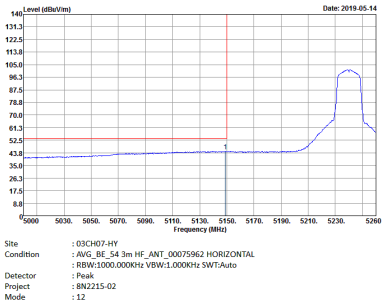
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

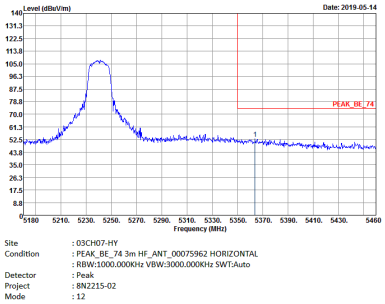
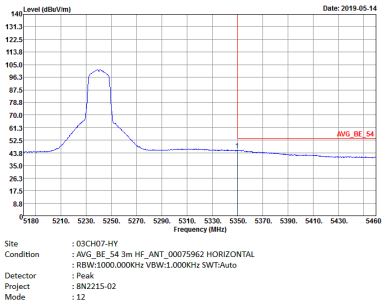
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

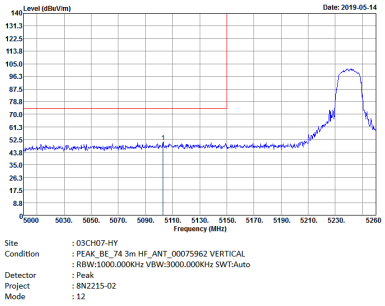
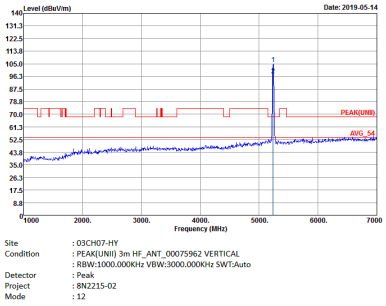
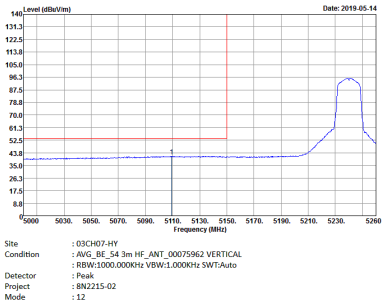
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

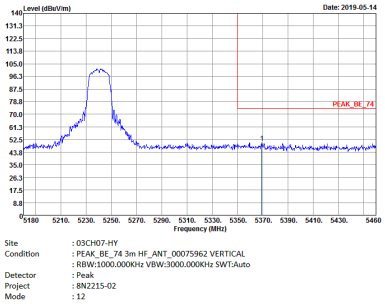
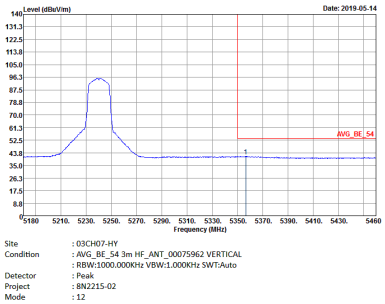
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

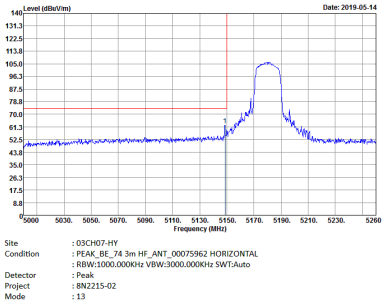
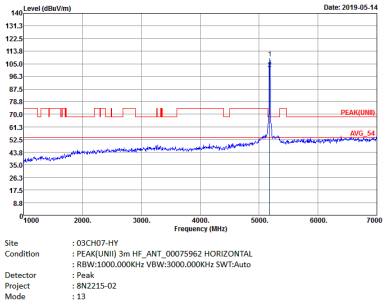
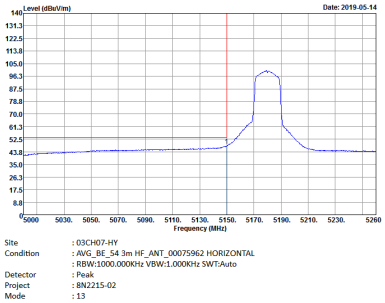
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

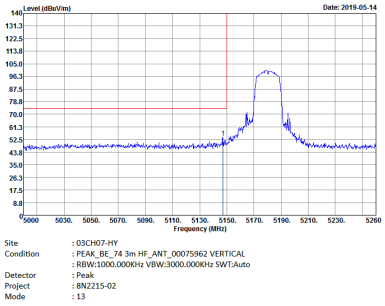
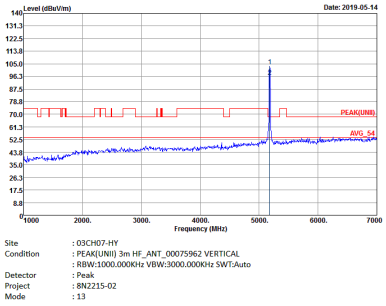
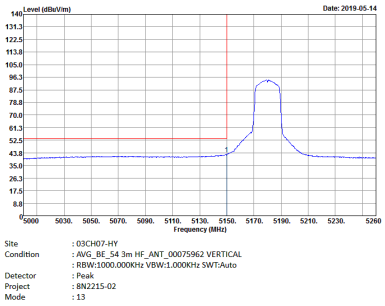
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

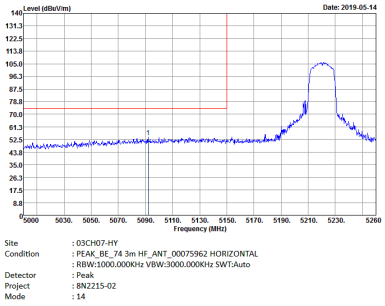
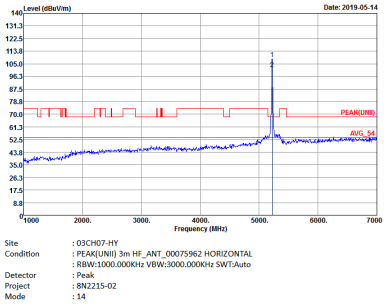
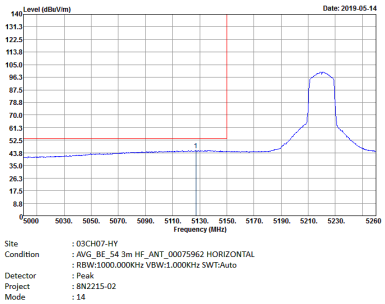
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

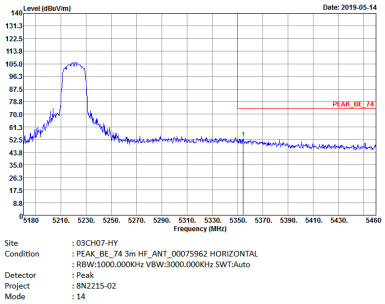
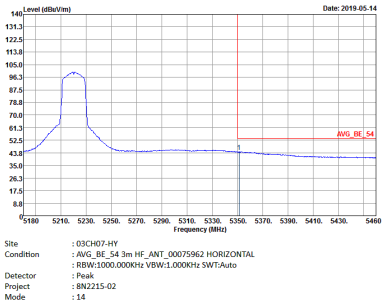
Band 1 5150~5250MHz

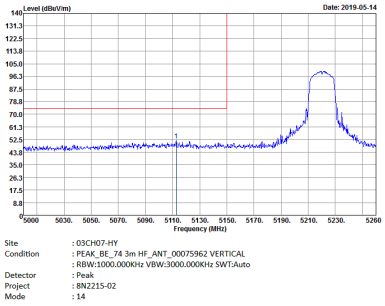
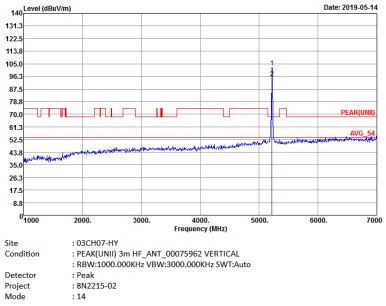
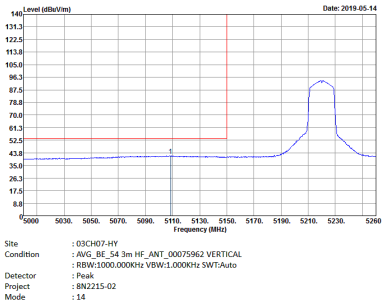
WIFI 802.11n HT20 (Band Edge @ 3m)

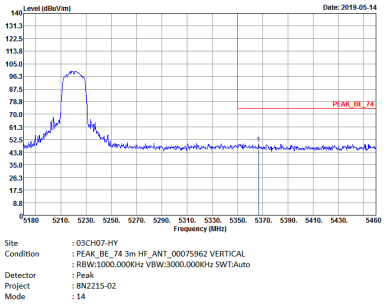
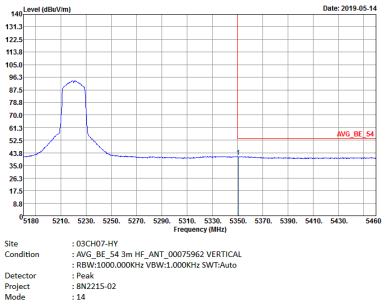
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

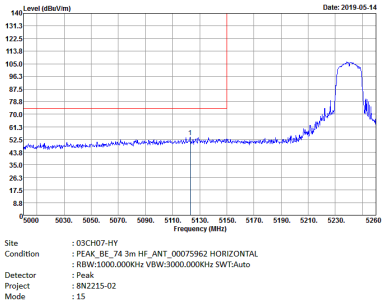
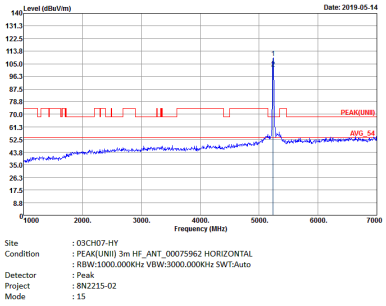
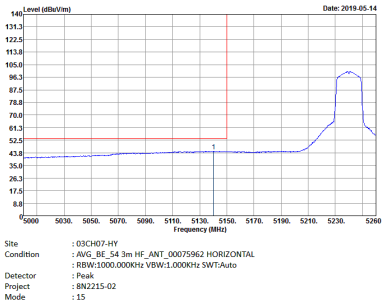
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

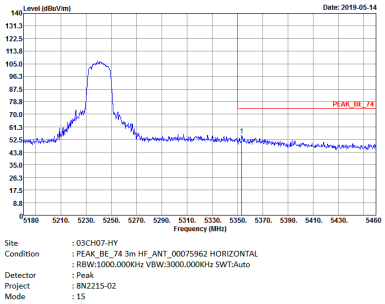
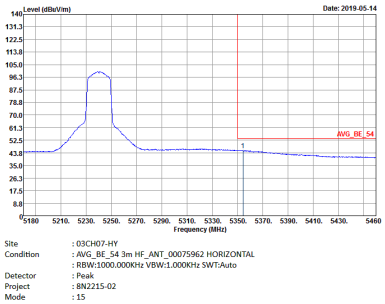
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

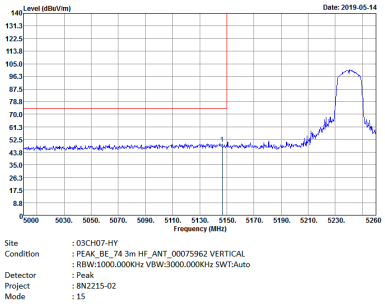
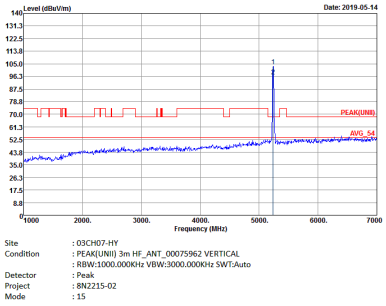
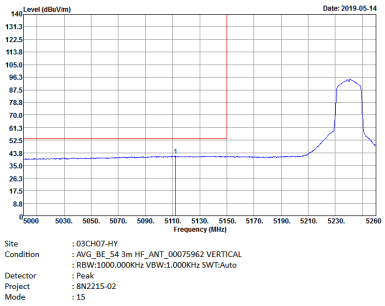
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

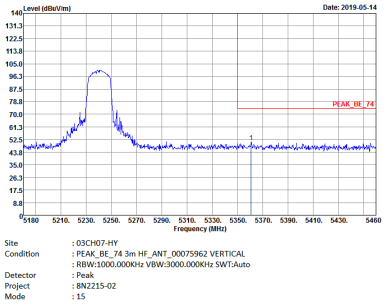
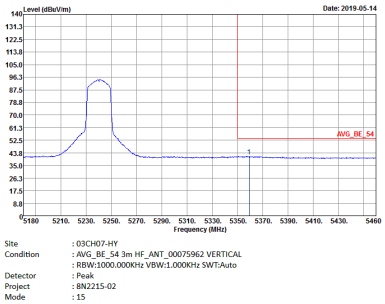
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

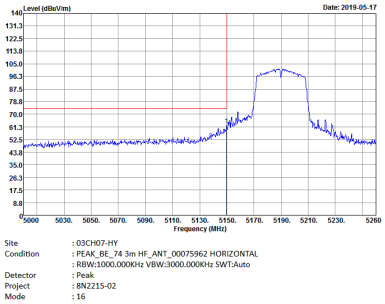
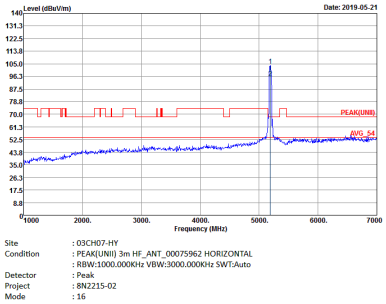
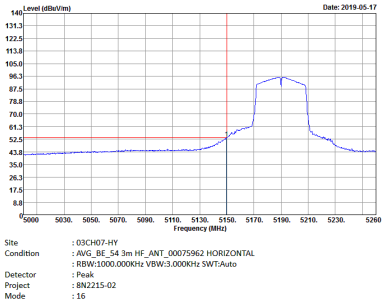
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

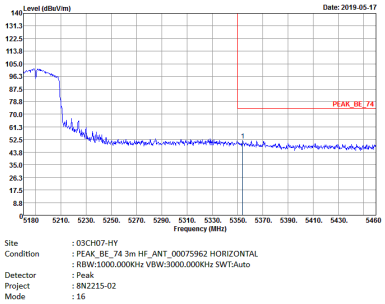
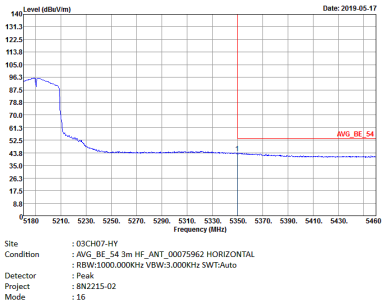
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

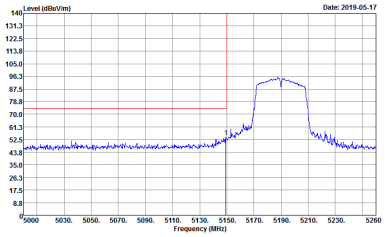
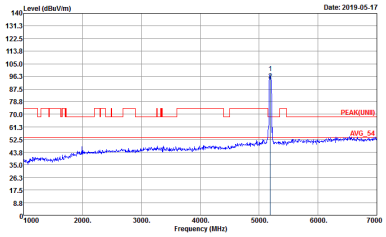
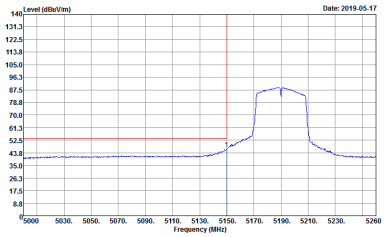
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

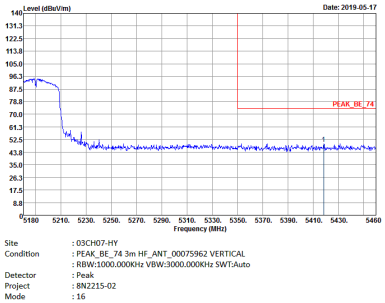
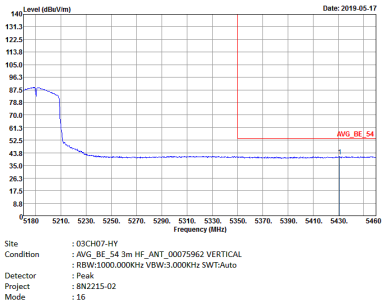
Band 1 5150~5250MHz

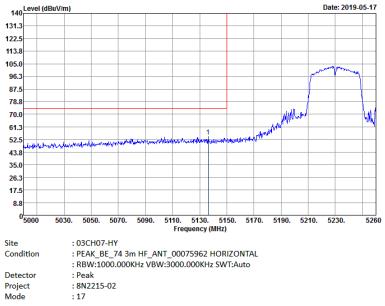
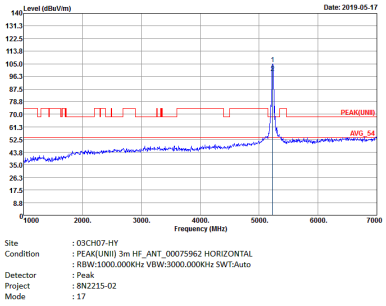
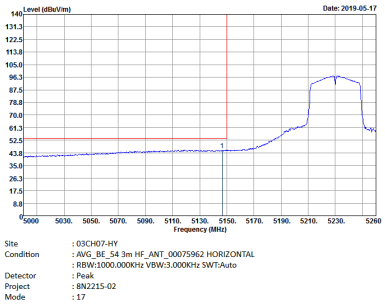
WIFI 802.11n HT40 (Band Edge @ 3m)

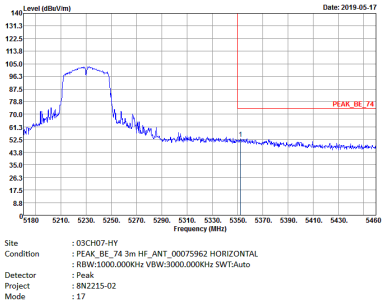
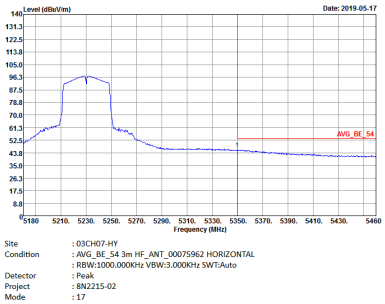
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

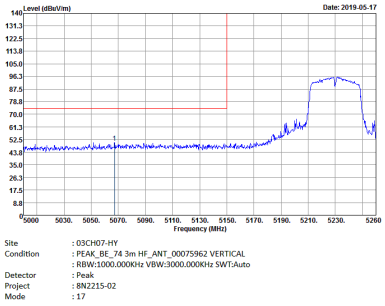
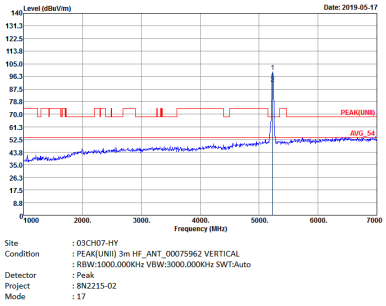
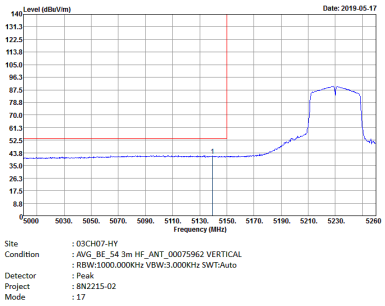
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

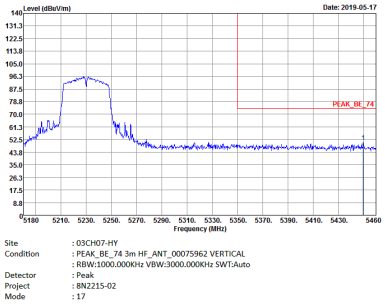
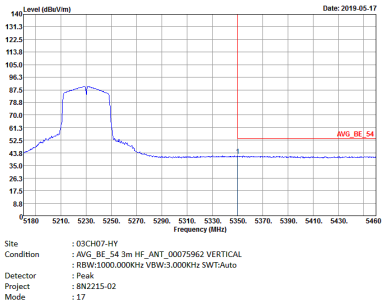
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 16	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

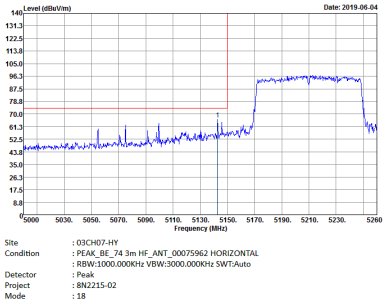
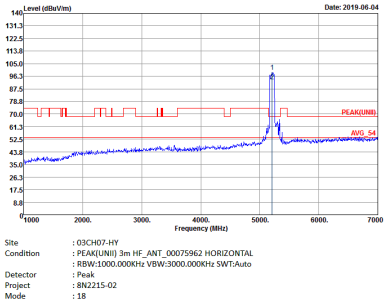
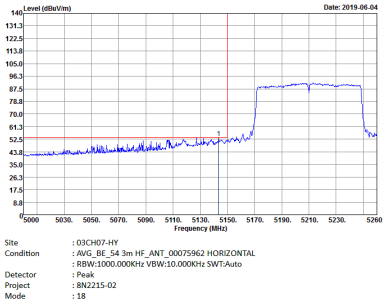
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

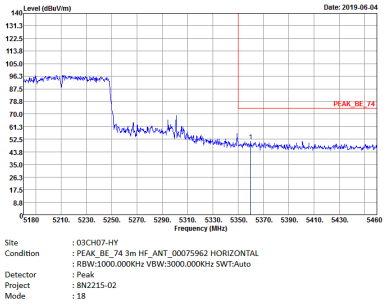
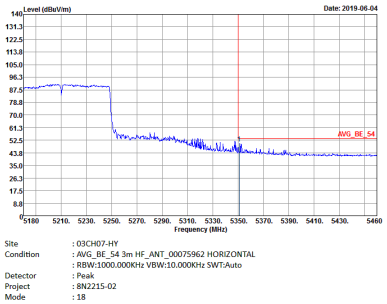
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

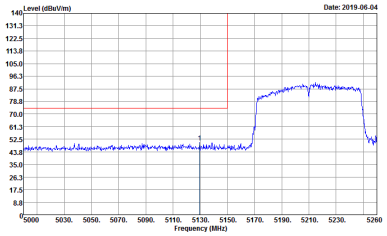
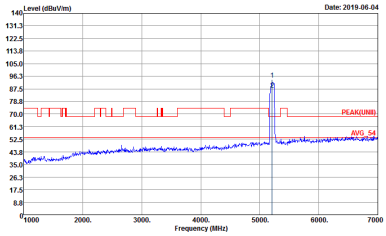
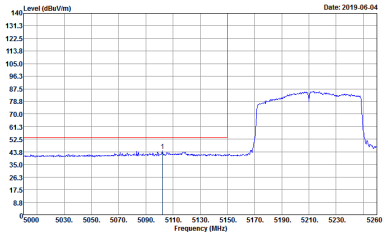
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

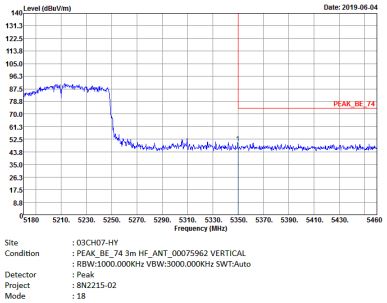
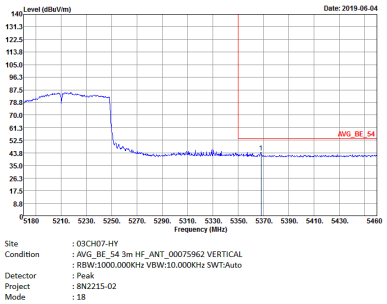
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

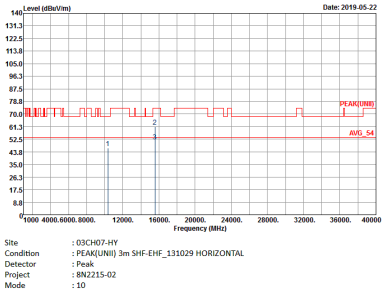
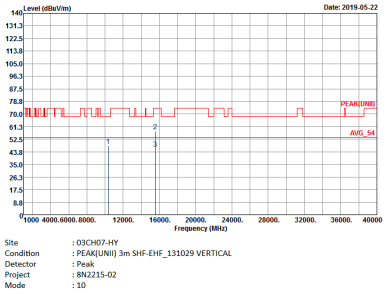
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

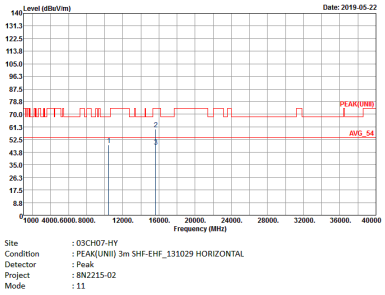
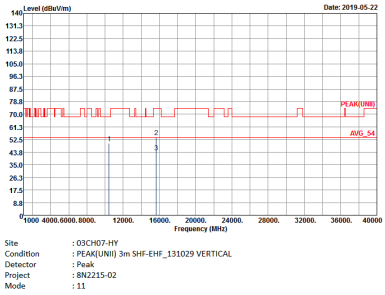
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 18	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 18	Left blank

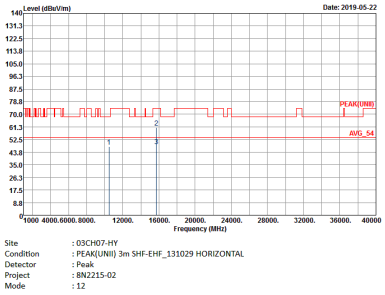
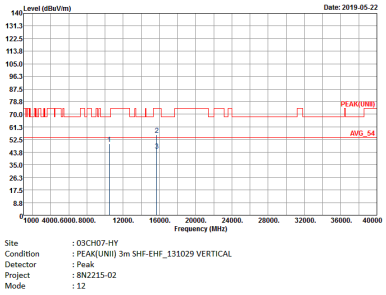
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

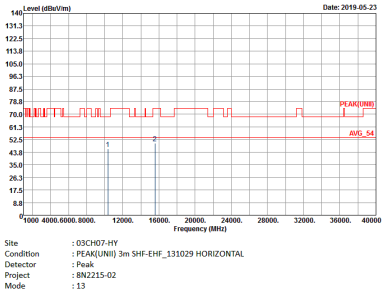
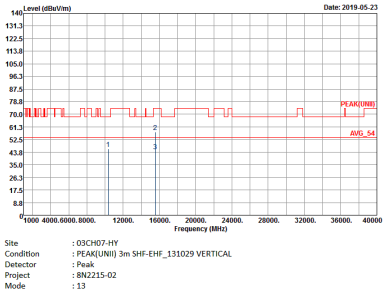
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

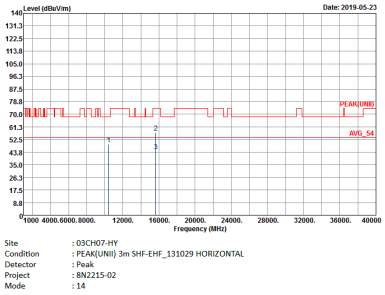
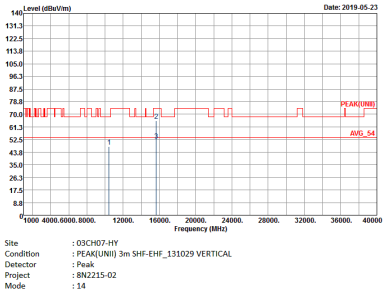
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 11	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 11

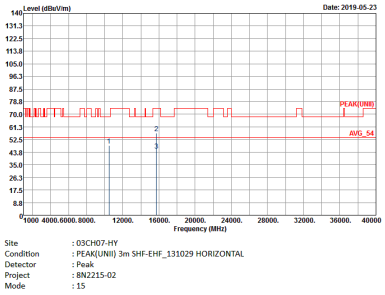
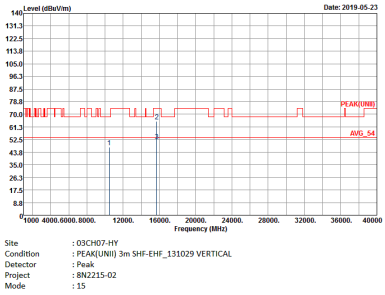
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 12	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 12

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 14	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 14

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 8N2215-02 Mode : 15	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 8N2215-02 Mode : 15

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
2	Horizontal	Vertical
Peak Avg.