FCC RADIO TEST REPORT

FCC ID	:	**2ASD3-7878**
Equipment	:	**Digital Media Receiver**
Model Name	:	**C77A68**
Applicant	:	**H.C. China X LLC 3450 N. Triumph Blvd., Suite 102 Lehi, Utah 84043**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Apr. 15, 2019 and testing was started from Jul. 06, 2019 and completed on Aug. 08, 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.

Louis Wu

Approved by: Louis Wu

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR941514-01E	01	Initial issue of report	Aug. 27, 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: Ann Lee

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	C77A68
FCC ID	2ASD3-7878
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 Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 18.80 dBm / 0.0759 W 802.11n HT20 : 18.60 dBm / 0.0724 W 802.11n HT40 : 18.70 dBm / 0.0741 W 802.11ac VHT20: 18.50 dBm / 0.0708 W 802.11ac VHT40: 18.60 dBm / 0.0724 W 802.11ac VHT80: 12.00 dBm / 0.0158 W **<5260 MHz ~ 5320 MHz>** 802.11a : 19.00 dBm / 0.0794 W 802.11n HT20 : 18.80 dBm / 0.0759 W 802.11n HT40 : 18.80 dBm / 0.0759 W 802.11ac VHT20: 18.70 dBm / 0.0741 W 802.11ac VHT40: 18.70 dBm / 0.0741 W 802.11ac VHT80: 15.30 dBm / 0.0339 W **<5500 MHz ~ 5720 MHz >** 802.11a : 18.70 dBm / 0.0741 W 802.11n HT20 : 18.70 dBm / 0.0741 W 802.11n HT40 : 20.00 dBm / 0.1000 W 802.11ac VHT20: 18.50 dBm / 0.0708 W 802.11ac VHT40: 19.90 dBm / 0.0977 W 802.11ac VHT80: 19.80 dBm / 0.0955 W
99% Occupied Bandwidth	802.11a : 16.98 MHz 802.11n HT20 : 17.98 MHz 802.11n HT40 : 37.46 MHz 802.11ac VHT80 : 76.96 MHz

Standards-related Product Specification	
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PCB Loop Antenna with gain 4.7 dBi **<5260 MHz ~ 5320 MHz>** PCB Loop Antenna with gain 5.0 dBi **<5500 MHz ~ 5720 MHz >** PCB Loop Antenna with gain 5.8 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

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

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

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

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

FCC designation No.: TW1190 and TW0007

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 (Y plane) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

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

Note:

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

2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHZ) Link + Play News + USB Light + Speaker

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

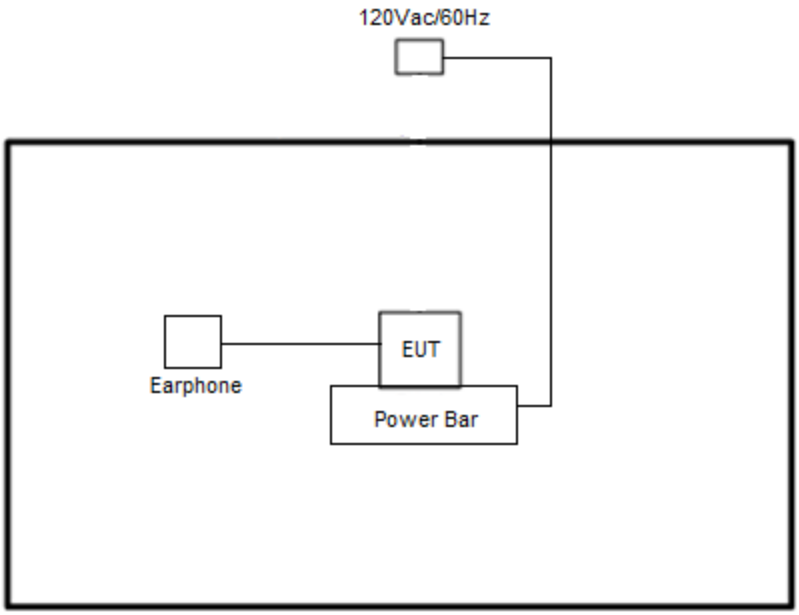
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

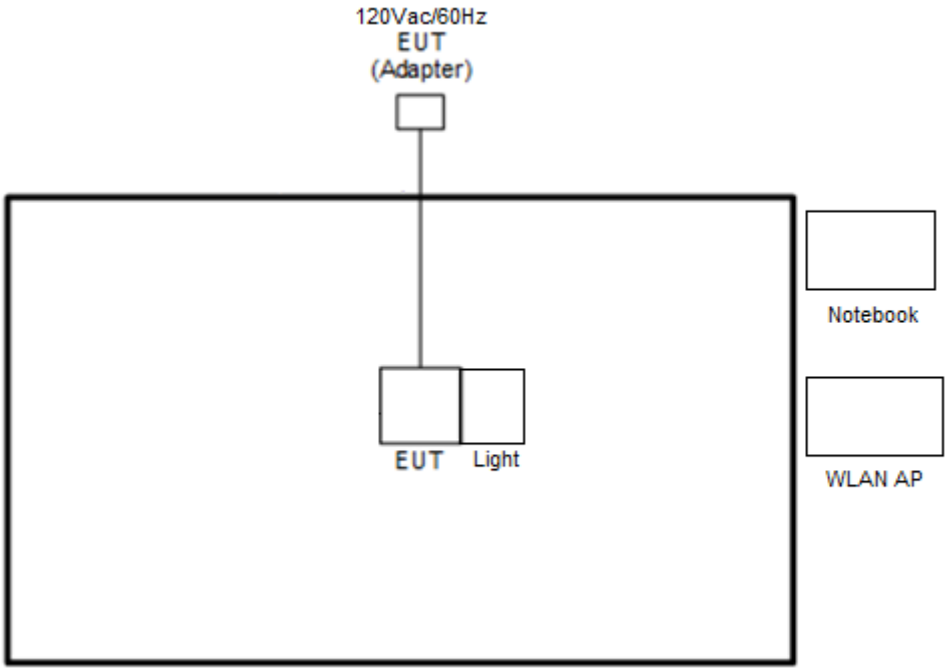
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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 E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Speaker	JAWBONE	N/A	N/A	N/A	N/A
4.	Earphone	ipod Earphone	IP-E1	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Compliance tool 1.0.0.54” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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.

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

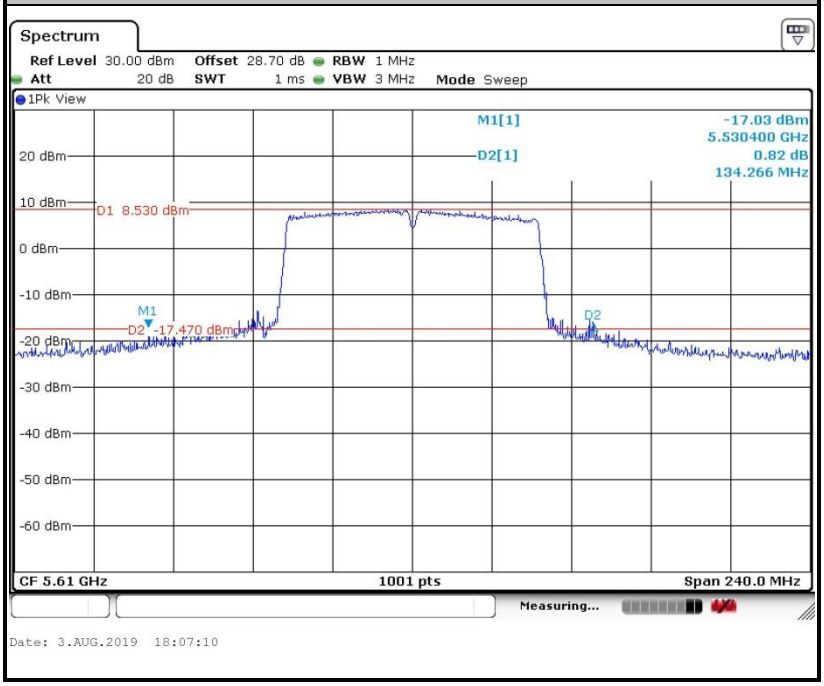
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

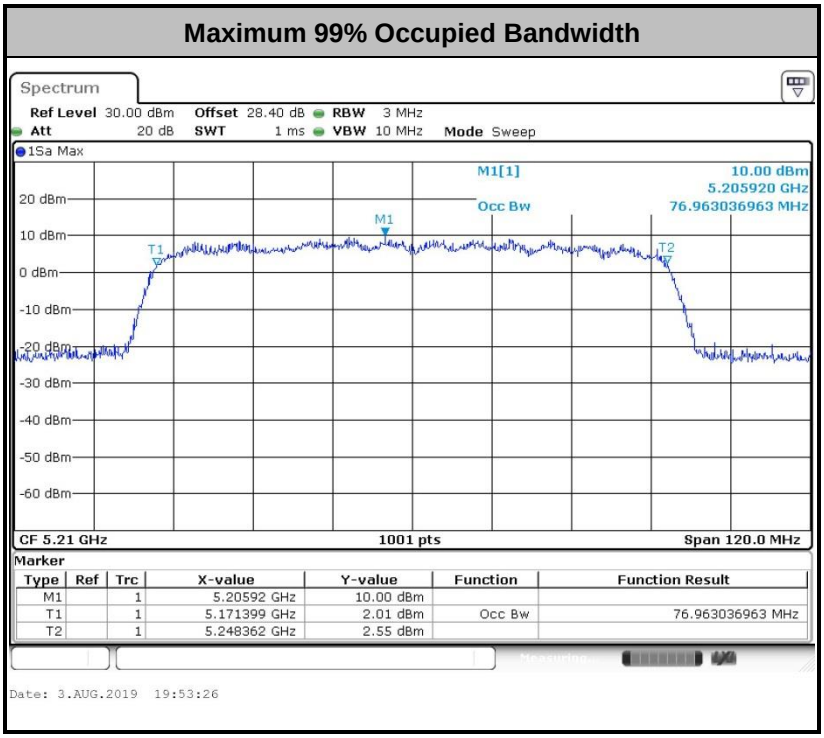
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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.

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

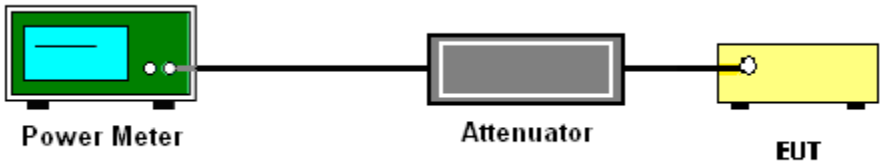
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

 # Method SA-3 #

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

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

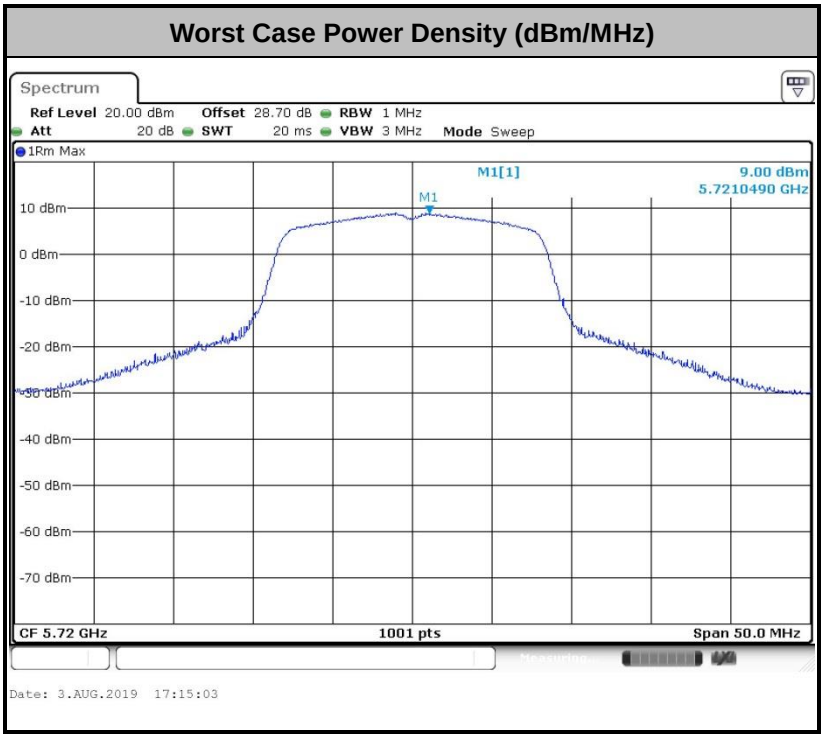
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup

3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ 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

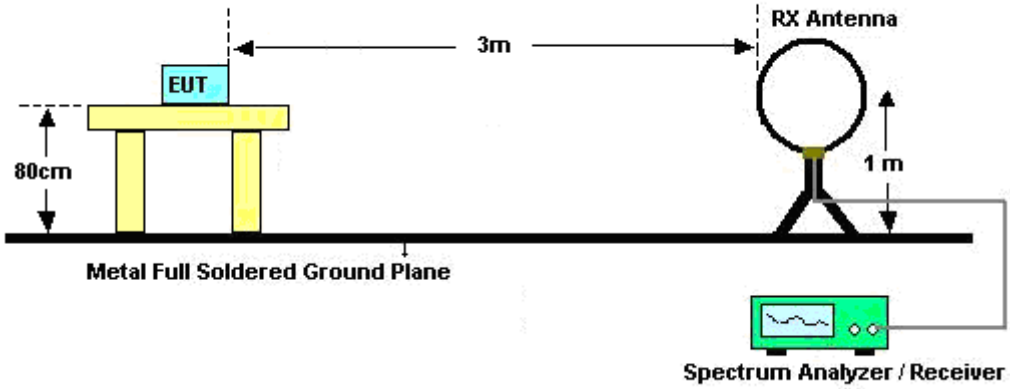
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

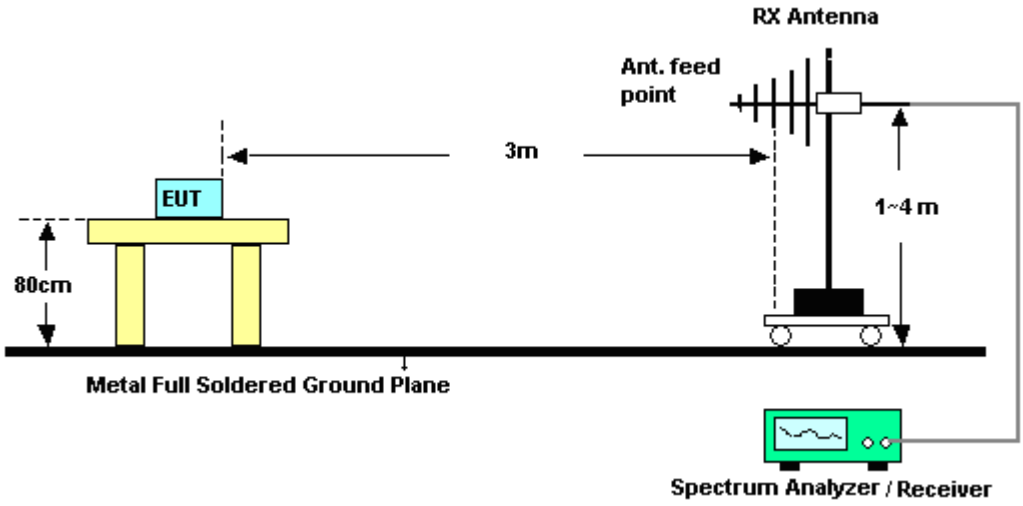
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

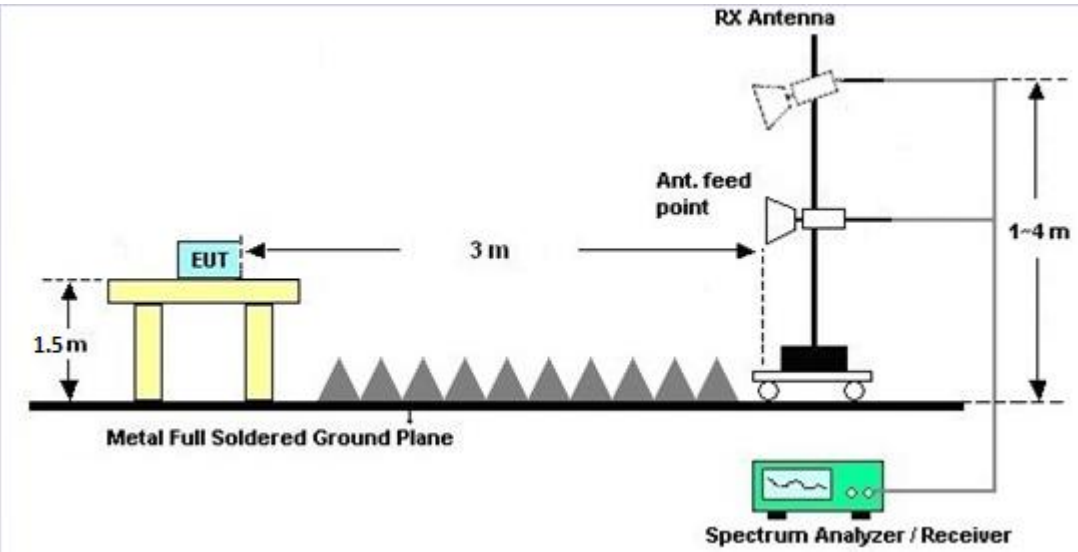
For radiated emissions below 30MHz



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.

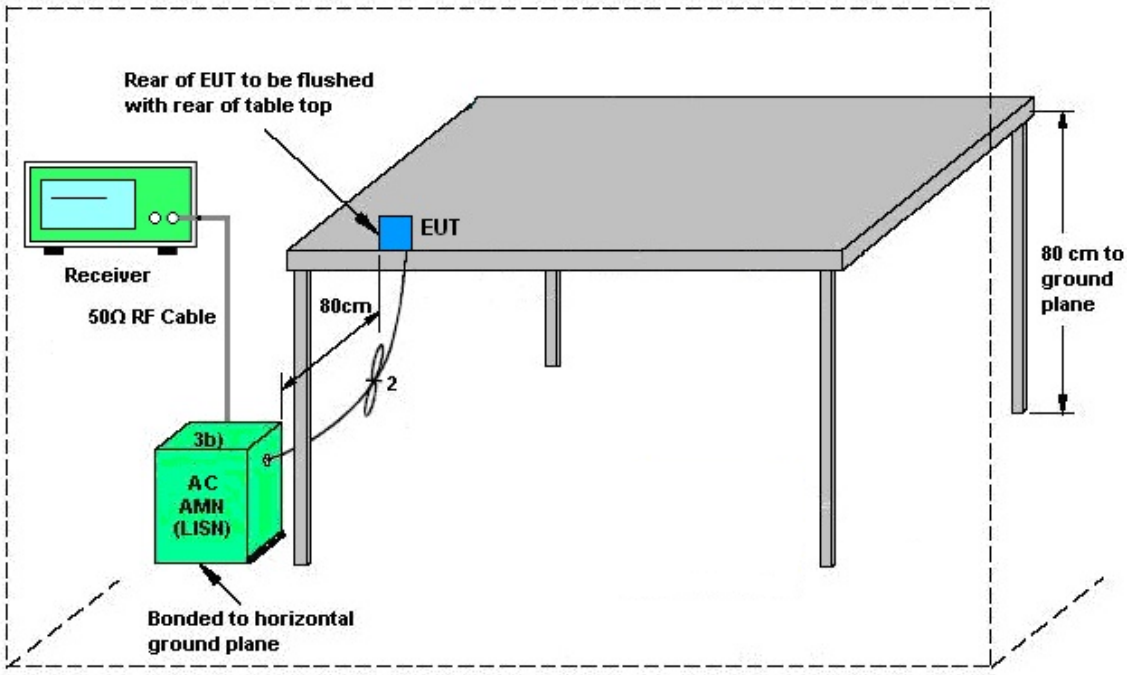
3.5.2 Measuring Instruments

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.

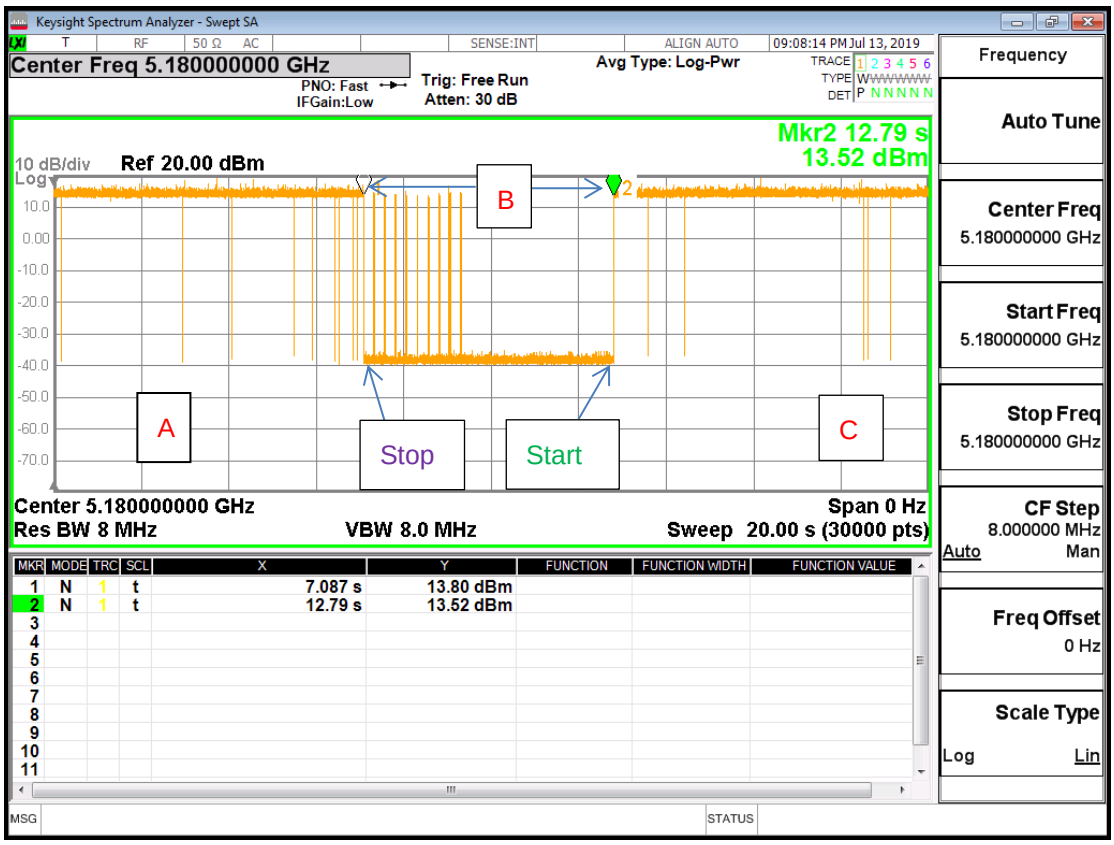
B. Information stop: stop supplying information to the access point.

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 / signalling information during the period B is precluded.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Jul. 09, 2019 ~ Aug. 06, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jul. 09, 2019 ~ Aug. 06, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jul. 09, 2019 ~ Aug. 06, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 06, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jul. 06, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jul. 06, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jul. 06, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 06, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jul. 06, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jul. 06, 2019	Dec. 30, 2019	Conduction (CO05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Jul .15, 2019~ Aug .08, 2019	Dec. 05, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Jul .15, 2019~ Aug .08, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 13, 2018	Jul .15, 2019~ Aug .08, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 30, 2018	Jul .15, 2019~ Aug .08, 2019	Oct. 29, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 22, 2018	Jul .15, 2019~ Aug .08, 2019	Nov. 21, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Jul .15, 2019~ Aug .08, 2019	Nov. 13, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2018	Jul .15, 2019~ Aug .08, 2019	Oct. 18, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jul .15, 2019~ Aug .08, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jul .15, 2019~ Aug .08, 2019	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Apr. 01, 2019	Jul .15, 2019~ Aug .08, 2019	Mar. 31, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jul .15, 2019~ Aug .08, 2019	Dec. 04, 2019	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Nov. 01, 2018	Jul .15, 2019~ Aug .08, 2019	Oct. 31, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jul .15, 2019~ Aug .08, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 13, 2019	Jul .15, 2019~ Aug .08, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Jul .15, 2019~ Aug .08, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 13, 2019	Jul .15, 2019~ Aug .08, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Jul .15, 2019~ Aug .08, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 16, 2018	Jul .15, 2019~ Aug .08, 2019	Sep. 17, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 17, 2018	Jul .15, 2019~ Aug .08, 2019	Sep. 16, 2019	Radiation (03CH11-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))	**5.2**

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:	Kai Liao	Temperature:	21~25	°C
Test Date:	2019/7/9 ~ 8/6	Relative Humidity:	51~54	%
TX Tool	Compliance	TX Tool Version	1.0.0.54	

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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	36	5180	16.73	-	26.37	-	-		22.24	-		
11a	6Mbps	1	44	5220	16.88	-	30.42	-	-		22.27	-		
11a	6Mbps	1	48	5240	16.88	-	30.52	-	-		22.27	-		
HT20	MCS0	1	36	5180	17.88	-	28.02	-	-		22.52	-		
HT20	MCS0	1	44	5220	17.98	-	31.72	-	-		22.55	-		
HT20	MCS0	1	48	5240	17.98	-	34.72	-	-		22.55	-		
HT40	MCS0	1	38	5190	36.76	-	41.72	-	-		23.01	-		
HT40	MCS0	1	46	5230	37.06	-	59.88	-	-		23.01	-		
VHT80	MCS0	1	42	5210	76.96	-	81.36	-	-		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 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	36	5180	17.80	-		24.00	-	4.70	-		Pass
11a	6Mbps	1	44	5220	18.70	-		24.00	-	4.70	-		Pass
11a	6Mbps	1	48	5240	18.80	-		24.00	-	4.70	-		Pass
HT20	MCS0	1	36	5180	17.50	-		24.00	-	4.70	-		Pass
HT20	MCS0	1	44	5220	18.60	-		24.00	-	4.70	-		Pass
HT20	MCS0	1	48	5240	18.60	-		24.00	-	4.70	-		Pass
HT40	MCS0	1	38	5190	14.30	-		24.00	-	4.70	-		Pass
HT40	MCS0	1	46	5230	18.70	-		24.00	-	4.70	-		Pass
VHT20	MCS0	1	36	5180	17.40	-		24.00	-	4.70	-		Pass
VHT20	MCS0	1	44	5220	18.50	-		24.00	-	4.70	-		Pass
VHT20	MCS0	1	48	5240	18.50	-		24.00	-	4.70	-		Pass
VHT40	MCS0	1	38	5190	14.20	-		24.00	-	4.70	-		Pass
VHT40	MCS0	1	46	5230	18.60	-		24.00	-	4.70	-		Pass
VHT80	MCS0	1	42	5210	12.00	-		24.00	-	4.70	-		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 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	36	5180	0.00	-	7.39	-		11.00	-	4.70	-		Pass
11a	6Mbps	1	44	5220	0.00	-	8.62	-		11.00	-	4.70	-		Pass
11a	6Mbps	1	48	5240	0.00	-	8.85	-		11.00	-	4.70	-		Pass
HT20	MCS0	1	36	5180	0.00	-	7.70	-		11.00	-	4.70	-		Pass
HT20	MCS0	1	44	5220	0.00	-	8.55	-		11.00	-	4.70	-		Pass
HT20	MCS0	1	48	5240	0.00	-	8.43	-		11.00	-	4.70	-		Pass
HT40	MCS0	1	38	5190	0.00	-	1.44	-		11.00	-	4.70	-		Pass
HT40	MCS0	1	46	5230	0.00	-	5.27	-		11.00	-	4.70	-		Pass
VHT80	MCS0	1	42	5210	0.00	-	-3.91	-		11.00	-	4.70	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
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)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	52	5260	16.98	-	30.37	-	23.30	-	29.30	-	23.98	-	
11a	6Mbps	1	60	5300	16.98	-	29.52	-	23.30	-	29.30	-	23.98	-	
11a	6Mbps	1	64	5320	16.93	-	27.22	-	23.29	-	29.29	-	23.98	-	
HT20	MCS0	1	52	5260	17.98	-	34.17	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	60	5300	17.98	-	31.52	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	64	5320	17.88	-	32.52	-	23.52	-	29.52	-	23.98	-	
HT40	MCS0	1	54	5270	37.16	-	63.12	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.76	-	41.90	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.84	-	81.20	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	52	5260	19.00	-		23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	60	5300	18.60	-		23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	64	5320	17.50	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	52	5260	18.70	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	60	5300	18.80	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	64	5320	17.80	-		23.98	-	5.00	-	26.99	Pass
HT40	MCS0	1	54	5270	18.80	-		23.98	-	5.00	-	26.99	Pass
HT40	MCS0	1	62	5310	15.80	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	52	5260	18.60	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	60	5300	18.70	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	64	5320	17.70	-		23.98	-	5.00	-	26.99	Pass
VHT40	MCS0	1	54	5270	18.70	-		23.98	-	5.00	-	26.99	Pass
VHT40	MCS0	1	62	5310	15.70	-		23.98	-	5.00	-	26.99	Pass
VHT80	MCS0	1	58	5290	15.30	-		23.98	-	5.00	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	52	5260	0.00	-	8.96	-		11.00	-	5.00	-		Pass
11a	6Mbps	1	60	5300	0.00	-	8.80	-		11.00	-	5.00	-		Pass
11a	6Mbps	1	64	5320	0.00	-	7.73	-		11.00	-	5.00	-		Pass
HT20	MCS0	1	52	5260	0.00	-	8.61	-		11.00	-	5.00	-		Pass
HT20	MCS0	1	60	5300	0.00	-	8.62	-		11.00	-	5.00	-		Pass
HT20	MCS0	1	64	5320	0.00	-	7.71	-		11.00	-	5.00	-		Pass
HT40	MCS0	1	54	5270	0.00	-	5.32	-		11.00	-	5.00	-		Pass
HT40	MCS0	1	62	5310	0.00	-	2.43	-		11.00	-	5.00	-		Pass
VHT80	MCS0	1	58	5290	0.00	-	-1.62	-		11.00	-	5.00	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	1	100	5500	16.78	-	26.97	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.83	-	28.92	-	23.26	-	29.26	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.78	-	25.97	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	144	5720	13.49	-	20.78	-	22.30	-	28.30	-	23.98	-	3.142	-
HT20	MCS0	1	100	5500	17.78	-	24.98	-	23.50	-	29.50	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.88	-	31.87	-	23.52	-	29.52	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.83	-	22.88	-	23.51	-	29.51	-	23.98	-	----	----
HT20	MCS0	1	144	5720	14.04	-	21.28	-	22.47	-	28.47	-	23.98	-	3.741	-
HT40	MCS0	1	102	5510	37.46	-	41.99	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	37.46	-	74.90	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.96	-	44.51	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	142	5710	34.28	-	56.54	-	23.98	-	30.00	-	23.98	-	3.162	-
VHT80	MCS0	1	106	5530	76.84	-	81.36	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.84	-	134.27	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	138	5690	74.08	-	115.08	-	23.98	-	30.00	-	23.98	-	3.203	-

TEST RESULTS DATA
Average Power Table

FCC Band III													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	100	5500	17.60	-		23.98	-	5.80	-	26.99	Pass
11a	6Mbps	1	116	5580	18.20	-		23.98	-	5.80	-	26.99	Pass
11a	6Mbps	1	140	5700	15.90	-		23.98	-	5.80	-	26.99	Pass
11a	6Mbps	1	144	5720	18.70	-		23.98	-	5.80	-	26.99	Pass
HT20	MCS0	1	100	5500	16.90	-		23.98	-	5.80	-	26.99	Pass
HT20	MCS0	1	116	5580	18.50	-		23.98	-	5.80	-	26.99	Pass
HT20	MCS0	1	140	5700	16.10	-		23.98	-	5.80	-	26.99	Pass
HT20	MCS0	1	144	5720	18.70	-		23.98	-	5.80	-	26.99	Pass
HT40	MCS0	1	102	5510	12.10	-		23.98	-	5.80	-	26.99	Pass
HT40	MCS0	1	110	5550	19.90	-		23.98	-	5.80	-	26.99	Pass
HT40	MCS0	1	134	5670	17.00	-		23.98	-	5.80	-	26.99	Pass
HT40	MCS0	1	142	5710	20.00	-		23.98	-	5.80	-	26.99	Pass
VHT20	MCS0	1	100	5500	16.80	-		23.98	-	5.80	-	26.99	Pass
VHT20	MCS0	1	116	5580	18.40	-		23.98	-	5.80	-	26.99	Pass
VHT20	MCS0	1	140	5700	16.00	-		23.98	-	5.80	-	26.99	Pass
VHT20	MCS0	1	144	5720	18.50	-		23.98	-	5.80	-	26.99	Pass
VHT40	MCS0	1	102	5510	12.00	-		23.98	-	5.80	-	26.99	Pass
VHT40	MCS0	1	110	5550	19.80	-		23.98	-	5.80	-	26.99	Pass
VHT40	MCS0	1	134	5670	16.90	-		23.98	-	5.80	-	26.99	Pass
VHT40	MCS0	1	142	5710	19.90	-		23.98	-	5.80	-	26.99	Pass
VHT80	MCS0	1	106	5530	10.80	-		23.98	-	5.80	-	26.99	Pass
VHT80	MCS0	1	122	5610	18.20	-		23.98	-	5.80	-	26.99	Pass
VHT80	MCS0	1	138	5690	19.80	-		23.98	-	5.80	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III															
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 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.00	-	7.73	-		11.00	-	5.80	-		Pass
11a	6Mbps	1	116	5580	0.00	-	8.26	-		11.00	-	5.80	-		Pass
11a	6Mbps	1	140	5700	0.00	-	6.16	-		11.00	-	5.80	-		Pass
11a	6Mbps	1	144	5720	0.00	-	9.00	-		11.00	-	5.80	-		Pass
HT20	MCS0	1	100	5500	0.00	-	7.11	-		11.00	-	5.80	-		Pass
HT20	MCS0	1	116	5580	0.00	-	8.34	-		11.00	-	5.80	-		Pass
HT20	MCS0	1	140	5700	0.00	-	6.33	-		11.00	-	5.80	-		Pass
HT20	MCS0	1	144	5720	0.00	-	8.52	-		11.00	-	5.80	-		Pass
HT40	MCS0	1	102	5510	0.00	-	-1.16	-		11.00	-	5.80	-		Pass
HT40	MCS0	1	110	5550	0.00	-	6.53	-		11.00	-	5.80	-		Pass
HT40	MCS0	1	134	5670	0.00	-	3.43	-		11.00	-	5.80	-		Pass
HT40	MCS0	1	142	5710	0.00	-	6.96	-		11.00	-	5.80	-		Pass
VHT80	MCS0	1	106	5530	0.00	-	-5.19	-		11.00	-	5.80	-		Pass
VHT80	MCS0	1	122	5610	0.00	-	1.32	-		11.00	-	5.80	-		Pass
VHT80	MCS0	1	138	5690	0.00	-	2.80	-		11.00	-	5.80	-		Pass

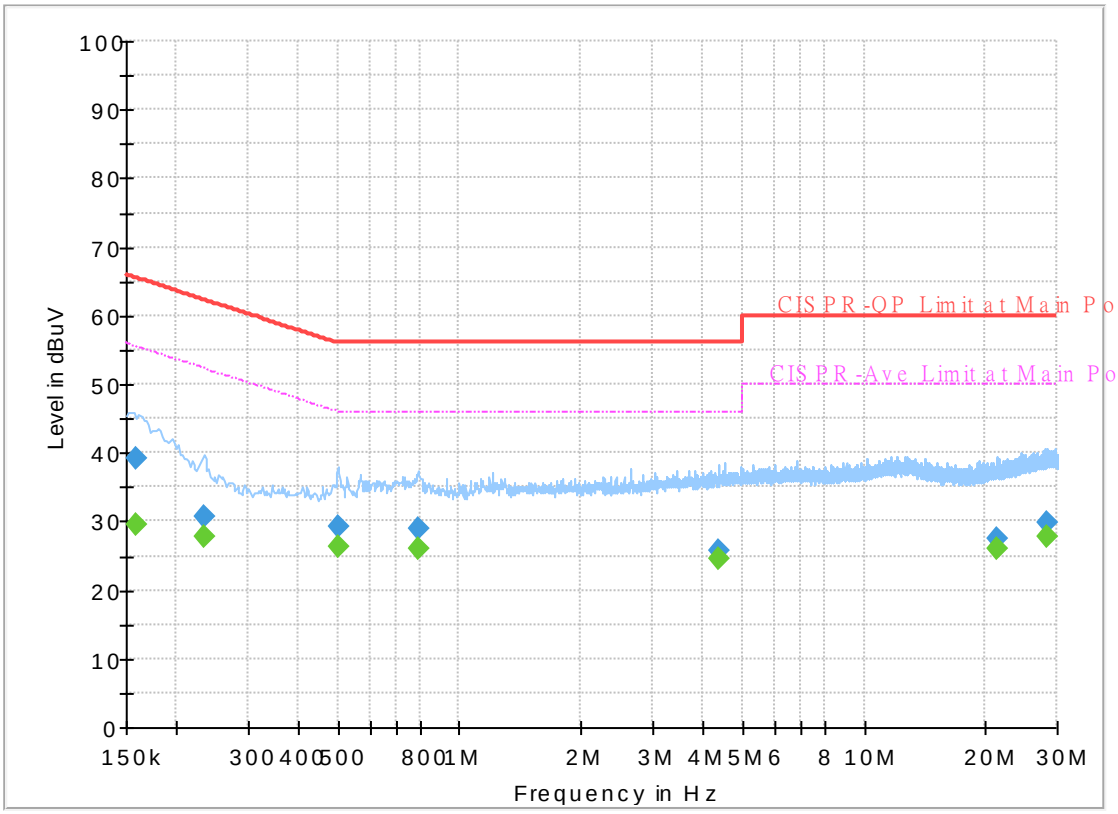
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	52~56%

EUT Information

Report NO :	941514-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



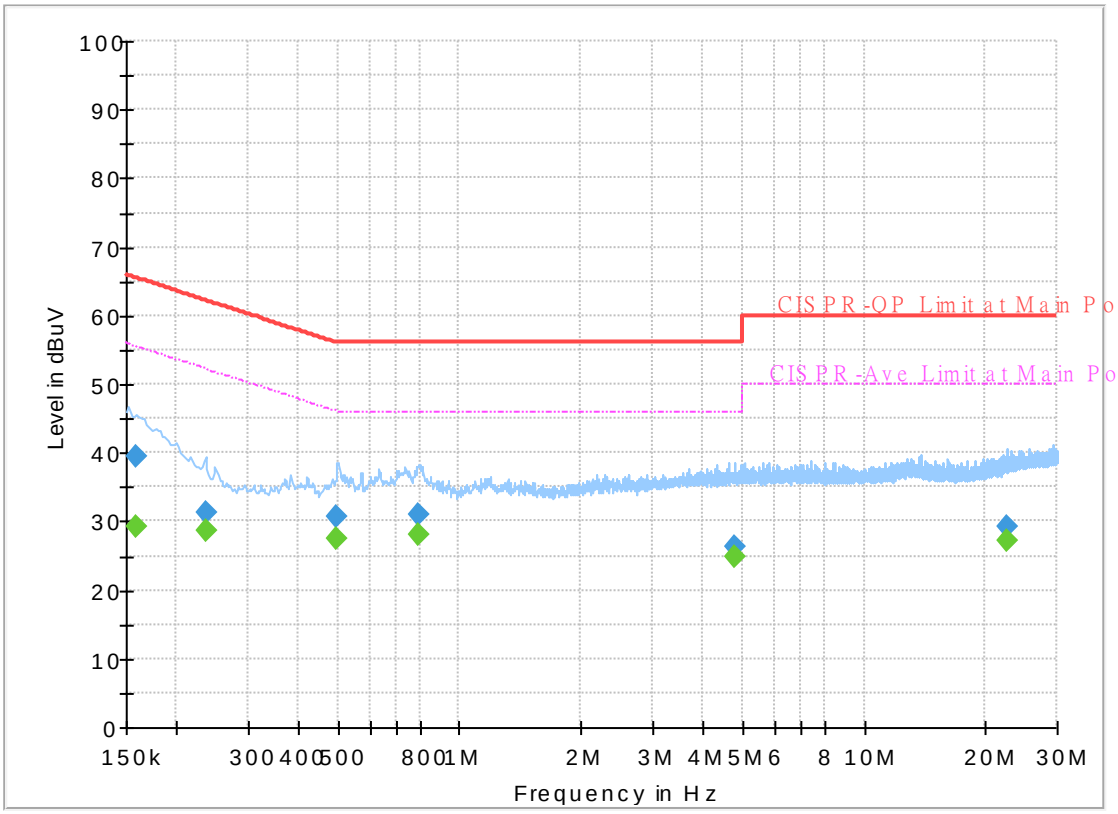
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	29.42	55.52	26.10	L1	OFF	19.4
0.159000	39.13	---	65.52	26.39	L1	OFF	19.4
0.233250	---	27.76	52.33	24.57	L1	OFF	19.4
0.233250	30.60	---	62.33	31.73	L1	OFF	19.4
0.501000	---	26.46	46.00	19.54	L1	OFF	19.4
0.501000	29.22	---	56.00	26.78	L1	OFF	19.4
0.789000	---	26.15	46.00	19.85	L1	OFF	19.4
0.789000	28.83	---	56.00	27.17	L1	OFF	19.4
4.355250	---	24.48	46.00	21.52	L1	OFF	19.6
4.355250	25.65	---	56.00	30.35	L1	OFF	19.6
21.239250	---	25.97	50.00	24.03	L1	OFF	20.2
21.239250	27.61	---	60.00	32.39	L1	OFF	20.2
28.416750	---	27.88	50.00	22.12	L1	OFF	20.3
28.416750	29.79	---	60.00	30.21	L1	OFF	20.3

EUT Information

Report NO :	941514-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	29.15	55.52	26.37	N	OFF	19.5
0.159000	39.38	---	65.52	26.14	N	OFF	19.5
0.235500	---	28.66	52.25	23.59	N	OFF	19.5
0.235500	31.38	---	62.25	30.87	N	OFF	19.5
0.498750	---	27.60	46.02	18.42	N	OFF	19.5
0.498750	30.58	---	56.02	25.44	N	OFF	19.5
0.795750	---	28.20	46.00	17.80	N	OFF	19.5
0.795750	31.10	---	56.00	24.90	N	OFF	19.5
4.776000	---	24.87	46.00	21.13	N	OFF	19.7
4.776000	26.25	---	56.00	29.75	N	OFF	19.7
22.656750	---	27.09	50.00	22.91	N	OFF	20.4
22.656750	29.15	---	60.00	30.85	N	OFF	20.4

Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Kuo, Fu Chen and Troye Hsieh	**Temperature :**	22.1~28.7°C
		Relative Humidity :	50.2~56.7%

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.
0		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	56.46	-17.54	74	47.65	31.9	10.03	33.12	229	274	P	H
		5150	47.29	-6.71	54	38.48	31.9	10.03	33.12	229	274	A	H
	*	5180	112.32	-	-	103.65	31.72	10.07	33.12	229	274	P	H
	*	5180	104.5	-	-	95.83	31.72	10.07	33.12	229	274	A	H
		5149.5	58.48	-15.52	74	49.67	31.9	10.03	33.12	106	273	P	V
		5150	49.63	-4.37	54	40.82	31.9	10.03	33.12	106	273	A	V
	*	5180	113.71	-	-	105.04	31.72	10.07	33.12	106	273	P	V
	*	5180	106.4	-	-	97.73	31.72	10.07	33.12	106	273	A	V
802.11a CH 44 5220MHz		5127.4	55.71	-18.29	74	46.97	31.85	10.01	33.12	229	280	P	H
		5135.2	44.76	-9.24	54	35.99	31.87	10.02	33.12	229	280	A	H
	*	5220	112.9	-	-	104.4	31.52	10.1	33.12	229	280	P	H
	*	5220	105.46	-	-	96.96	31.52	10.1	33.12	229	280	A	H
		5373.36	51.99	-22.01	74	43.52	31.44	10.14	33.11	229	280	P	H
		5350.32	41.97	-12.03	54	33.64	31.3	10.14	33.11	229	280	A	H
		5135.2	58.02	-15.98	74	49.25	31.87	10.02	33.12	100	274	P	V
		5150	47.72	-6.28	54	38.91	31.9	10.03	33.12	100	274	A	V
	*	5220	115.43	-	-	106.93	31.52	10.1	33.12	100	274	P	V
	*	5220	108.1	-	-	99.6	31.52	10.1	33.12	100	274	A	V
		5354.88	52.63	-21.37	74	44.27	31.33	10.14	33.11	100	274	P	V
		5350.56	43.15	-10.85	54	34.82	31.3	10.14	33.11	100	274	A	V

WIFI Ant. 0	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 48 5240MHz		5142.22	54.54	-19.46	74	45.75	31.88	10.03	33.12	226	278	P	H
		5135.72	44.92	-9.08	54	36.15	31.87	10.02	33.12	226	278	A	H
	*	5240	112.77	-	-	104.35	31.44	10.1	33.12	226	278	P	H
	*	5240	105.44	-	-	97.02	31.44	10.1	33.12	226	278	A	H
		5350.32	52.16	-21.84	74	43.83	31.3	10.14	33.11	226	278	P	H
		5359.92	42.68	-11.32	54	34.29	31.36	10.14	33.11	226	278	A	H
		5133.64	57.04	-16.96	74	48.27	31.87	10.02	33.12	100	279	P	V
		5127.92	47.18	-6.82	54	38.43	31.86	10.01	33.12	100	279	A	V
	*	5240	115.48	-	-	107.06	31.44	10.1	33.12	100	279	P	V
	*	5240	108.05	-	-	99.63	31.44	10.1	33.12	100	279	A	V
		5364.72	52.68	-21.32	74	44.26	31.39	10.14	33.11	100	279	P	V
		5352	43.5	-10.5	54	35.16	31.31	10.14	33.11	100	279	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. 0	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	48.86	-19.34	68.2	53.96	39.54	16.12	60.76	100	0	P	H
		15540	44.95	-29.05	74	47.64	38.3	20.56	61.55	100	0	P	H
		10360	46.58	-21.62	68.2	51.68	39.54	16.12	60.76	100	0	P	V
		15540	45.85	-28.15	74	48.54	38.3	20.56	61.55	100	0	P	V
802.11a CH 44 5220MHz		10440	47.6	-20.6	68.2	52.69	39.7	16.17	60.96	100	0	P	H
		15660	45.72	-28.28	74	48.9	37.7	20.53	61.41	100	0	P	H
		10440	45.68	-22.52	68.2	50.77	39.7	16.17	60.96	100	0	P	V
		15660	44.83	-29.17	74	48.01	37.7	20.53	61.41	100	0	P	V
802.11a CH 48 5240MHz		10480	45.11	-23.09	68.2	50.26	39.7	16.2	61.05	100	0	P	H
		15720	44.27	-29.73	74	47.57	37.52	20.52	61.34	100	0	P	H
		10480	44.57	-23.63	68.2	49.72	39.7	16.2	61.05	100	0	P	V
		15720	44.54	-29.46	74	47.84	37.52	20.52	61.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0	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		5148.46	57.39	-16.61	74	48.58	31.9	10.03	33.12	221	288	P	H
		5150	47.22	-6.78	54	38.41	31.9	10.03	33.12	221	288	A	H
	*	5180	111.77	43.57	68.2	103.1	31.72	10.07	33.12	221	288	P	H
	*	5180	103.64	49.64	54	94.97	31.72	10.07	33.12	221	288	A	H
		5145.86	58.53	-15.47	74	49.73	31.89	10.03	33.12	197	333	P	V
		5150	48.46	-5.54	54	39.65	31.9	10.03	33.12	197	333	A	V
	*	5180	112.47	44.27	68.2	103.8	31.72	10.07	33.12	197	333	P	V
	*	5180	104.86	50.86	54	96.19	31.72	10.07	33.12	197	333	A	V
802.11n HT20 CH 44 5220MHz		5089.18	54.98	-19.02	74	46.37	31.76	9.97	33.12	229	275	P	H
		5149.76	45.26	-8.74	54	36.45	31.9	10.03	33.12	229	275	A	H
	*	5220	112.56	-	-	104.06	31.52	10.1	33.12	229	275	P	H
	*	5220	105.16	-	-	96.66	31.52	10.1	33.12	229	275	A	H
		5350.08	52.43	-21.57	74	44.1	31.3	10.14	33.11	229	275	P	H
		5350.08	42.24	-11.76	54	33.91	31.3	10.14	33.11	229	275	A	H
		5145.6	59.01	-14.99	74	50.21	31.89	10.03	33.12	109	274	P	V
		5148.98	48.08	-5.92	54	39.27	31.9	10.03	33.12	109	274	A	V
	*	5220	115.21	-	-	106.71	31.52	10.1	33.12	109	274	P	V
	*	5220	107.99	-	-	99.49	31.52	10.1	33.12	109	274	A	V
		5356.08	50.79	-23.21	74	42.42	31.34	10.14	33.11	109	274	P	V
		5350.32	42.88	-11.12	54	34.55	31.3	10.14	33.11	109	274	A	V

WIFI Ant. 0	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 48 5240MHz		5138.84	55.15	-18.85	74	46.37	31.88	10.02	33.12	223	274	P	H
		5128.44	44.9	-9.1	54	36.15	31.86	10.01	33.12	223	274	A	H
	*	5240	112.49	-	-	104.07	31.44	10.1	33.12	223	274	P	H
	*	5240	105.16	-	-	96.74	31.44	10.1	33.12	223	274	A	H
		5366.88	52.72	-21.28	74	44.29	31.4	10.14	33.11	223	274	P	H
		5351.52	42.74	-11.26	54	34.4	31.31	10.14	33.11	223	274	A	H
		5137.54	58.6	-15.4	74	49.82	31.88	10.02	33.12	109	271	P	V
		5149.5	47.28	-6.72	54	38.47	31.9	10.03	33.12	109	271	A	V
	*	5240	114.95	-	-	106.53	31.44	10.1	33.12	109	271	P	V
	*	5240	107.63	-	-	99.21	31.44	10.1	33.12	109	271	A	V
		5396.64	53.07	-20.93	74	44.45	31.58	10.15	33.11	109	271	P	V
		5351.28	43.51	-10.49	54	35.17	31.31	10.14	33.11	109	271	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. 0	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		10360	47.73	-20.47	68.2	52.83	39.54	16.12	60.76	100	0	P	H
HT20		15540	45.2	-28.8	74	47.89	38.3	20.56	61.55	100	0	P	H
CH 36		10360	45.51	-22.69	68.2	50.61	39.54	16.12	60.76	100	0	P	V
5180MHz		15540	44.32	-29.68	74	47.01	38.3	20.56	61.55	100	0	P	V
802.11n		10440	46.62	-21.58	68.2	51.71	39.7	16.17	60.96	100	0	P	H
HT20		15660	45.26	-28.74	74	48.44	37.7	20.53	61.41	100	0	P	H
CH 44		10440	45.61	-22.59	68.2	50.7	39.7	16.17	60.96	100	0	P	V
5220MHz		15660	44.73	-29.27	74	47.91	37.7	20.53	61.41	100	0	P	V
802.11n		10480	45.61	-22.59	68.2	50.76	39.7	16.2	61.05	100	0	P	H
HT20		15720	44.01	-29.99	74	47.31	37.52	20.52	61.34	100	0	P	H
CH 48		10480	44.62	-23.58	68.2	49.77	39.7	16.2	61.05	100	0	P	V
5240MHz		15720	44.3	-29.7	74	47.6	37.52	20.52	61.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.24	56.74	-17.26	74	47.93	31.9	10.03	33.12	227	276	P	H
		5150	47.8	-6.2	54	38.99	31.9	10.03	33.12	227	276	A	H
	*	5190	104.91	-	-	96.29	31.66	10.08	33.12	227	276	P	H
	*	5190	96.58	-	-	87.96	31.66	10.08	33.12	227	276	A	H
		5446	49.36	-24.64	74	40.56	31.69	10.22	33.11	227	276	P	H
		5460	39.8	-14.2	54	30.93	31.74	10.24	33.11	227	276	A	H
		5149.24	61.12	-12.88	74	52.31	31.9	10.03	33.12	100	281	P	V
		5150	50.74	-3.26	54	41.93	31.9	10.03	33.12	100	281	A	V
	*	5190	107.02	-	-	98.4	31.66	10.08	33.12	100	281	P	V
	*	5190	99.39	-	-	90.77	31.66	10.08	33.12	100	281	A	V
		5360.6	50.66	-23.34	74	42.27	31.36	10.14	33.11	100	281	P	V
		5355.84	40.36	-13.64	54	31.99	31.34	10.14	33.11	100	281	A	V
802.11n HT40 CH 46 5230MHz		5135.46	56.02	-17.98	74	47.25	31.87	10.02	33.12	218	274	P	H
		5150	46.12	-7.88	54	37.31	31.9	10.03	33.12	218	274	A	H
	*	5230	109.8	-	-	101.34	31.48	10.1	33.12	218	274	P	H
	*	5230	101.98	-	-	93.52	31.48	10.1	33.12	218	274	A	H
		5366.4	52.03	-21.97	74	43.6	31.4	10.14	33.11	218	274	P	H
		5350.32	42.48	-11.52	54	34.15	31.3	10.14	33.11	218	274	A	H
		5140.14	60.07	-13.93	74	51.29	31.88	10.02	33.12	100	278	P	V
		5150	49.58	-4.42	54	40.77	31.9	10.03	33.12	100	278	A	V
	*	5230	112.62	-	-	104.16	31.48	10.1	33.12	100	278	P	V
	*	5230	104.79	-	-	96.33	31.48	10.1	33.12	100	278	A	V
		5352	55.1	-18.9	74	46.76	31.31	10.14	33.11	100	278	P	V
		5350.08	43.6	-10.4	54	35.27	31.3	10.14	33.11	100	278	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. 0	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		10380	43.18	-25.02	68.2	46.72	39.62	16.14	59.3	100	0	P	H
HT40		15570	43.47	-30.53	74	44.71	38.15	20.55	59.94	100	0	P	H
CH 38		10380	43.31	-24.89	68.2	46.85	39.62	16.14	59.3	100	0	P	V
5190MHz		15570	42.51	-31.49	74	43.75	38.15	20.55	59.94	100	0	P	V
802.11n		10460	45.02	-23.18	68.2	50.13	39.7	16.19	61	100	0	P	H
HT40		15690	45.36	-28.64	74	48.65	37.55	20.53	61.37	100	0	P	H
CH 46		10460	45.73	-22.47	68.2	50.84	39.7	16.19	61	100	0	P	V
5230MHz		15690	45.65	-28.35	74	48.94	37.55	20.53	61.37	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. 0	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		5147.94	59.25	-14.75	74	50.44	31.9	10.03	33.12	228	270	P	H
		5150	48.88	-5.12	54	40.07	31.9	10.03	33.12	228	270	A	H
	*	5210	99.49	-	-	90.96	31.56	10.09	33.12	228	270	P	H
	*	5210	91.66	-	-	83.13	31.56	10.09	33.12	228	270	A	H
		5459.74	50.02	-23.98	74	41.15	31.74	10.24	33.11	228	270	P	H
		5460	39.5	-14.5	54	30.63	31.74	10.24	33.11	228	270	A	H
		5145.86	61.76	-12.24	74	52.96	31.89	10.03	33.12	100	275	P	V
		5150	50.93	-3.07	54	42.12	31.9	10.03	33.12	100	275	A	V
	*	5210	100.94	-	-	92.41	31.56	10.09	33.12	100	275	P	V
	*	5210	93.23	-	-	84.7	31.56	10.09	33.12	100	275	A	V
		5452.46	50.38	-23.62	74	41.55	31.71	10.23	33.11	100	275	P	V
		5350.02	39.59	-14.41	54	31.26	31.3	10.14	33.11	100	275	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. 0	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	43.78	-24.42	68.2	48.83	39.7	16.16	60.91	100	0	P	H
VHT80		15630	43.95	-30.05	74	47	37.85	20.54	61.44	100	0	P	H
CH 42		10420	43.81	-24.39	68.2	48.86	39.7	16.16	60.91	100	0	P	V
5210MHz		15630	44.23	-29.77	74	47.28	37.85	20.54	61.44	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5144.84	53.86	-20.14	74	45.06	31.89	10.03	33.12	223	267	P	H
		5140.08	44.65	-9.35	54	35.87	31.88	10.02	33.12	223	267	A	H
	*	5260	113.07	-	-	104.69	31.38	10.11	33.11	223	267	P	H
	*	5260	105.72	-	-	97.34	31.38	10.11	33.11	223	267	A	H
		5365.92	53.81	-20.19	74	45.38	31.4	10.14	33.11	223	267	P	H
		5350.56	43.61	-10.39	54	35.28	31.3	10.14	33.11	223	267	A	H
		5142.8	56.95	-17.05	74	48.15	31.89	10.03	33.12	103	267	P	V
		5147.9	47.4	-6.6	54	38.59	31.9	10.03	33.12	103	267	A	V
	*	5260	116.07	-	-	107.69	31.38	10.11	33.11	103	267	P	V
	*	5260	108.43	-	-	100.05	31.38	10.11	33.11	103	267	A	V
		5352	56.31	-17.69	74	47.97	31.31	10.14	33.11	103	267	P	V
		5350.8	45.37	-8.63	54	37.04	31.3	10.14	33.11	103	267	A	V
802.11a CH 60 5300MHz		5089.08	53.23	-20.77	74	44.62	31.76	9.97	33.12	233	274	P	H
		5149.6	43.57	-10.43	54	34.76	31.9	10.03	33.12	233	274	A	H
	*	5300	112.14	-	-	103.83	31.3	10.12	33.11	233	274	P	H
	*	5300	104.67	-	-	96.36	31.3	10.12	33.11	233	274	A	H
		5380.08	54	-20	74	45.49	31.48	10.14	33.11	233	274	P	H
		5350.32	44.89	-9.11	54	36.56	31.3	10.14	33.11	233	274	A	H
		5128.86	55.11	-18.89	74	46.36	31.86	10.01	33.12	105	276	P	V
		5148.58	46.01	-7.99	54	37.2	31.9	10.03	33.12	105	276	A	V
	*	5300	114.51	-	-	106.2	31.3	10.12	33.11	105	276	P	V
	*	5300	107.33	-	-	99.02	31.3	10.12	33.11	105	276	A	V
		5352.48	55.71	-18.29	74	47.37	31.31	10.14	33.11	105	276	P	V
		5350.56	46.56	-7.44	54	38.23	31.3	10.14	33.11	105	276	A	V

WIFI Ant. 0	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 64 5320MHz	*	5320	111.62	-	-	103.3	31.3	10.13	33.11	225	271	P	H
	*	5320	104.04	-	-	95.72	31.3	10.13	33.11	225	271	A	H
		5351.2	54.11	-19.89	74	45.77	31.31	10.14	33.11	225	271	P	H
		5350.08	45.79	-8.21	54	37.46	31.3	10.14	33.11	225	271	A	H
	*	5320	113.84	-	-	105.52	31.3	10.13	33.11	100	270	P	V
	*	5320	105.98	-	-	97.66	31.3	10.13	33.11	100	270	A	V
		5356.8	56.2	-17.8	74	47.83	31.34	10.14	33.11	100	270	P	V
		5350.08	47.53	-6.47	54	39.2	31.3	10.14	33.11	100	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0	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 52 5260MHz		10520	43.94	-24.26	68.2	49.14	39.7	16.22	61.12	100	0	P	H
		15780	44.43	-29.57	74	47.6	37.58	20.51	61.26	100	0	P	H
		10520	43.88	-24.32	68.2	49.08	39.7	16.22	61.12	100	0	P	V
		15780	44.8	-29.2	74	47.97	37.58	20.51	61.26	100	0	P	V
802.11a CH 60 5300MHz		10600	43.1	-30.9	74	48.35	39.7	16.27	61.22	100	0	P	H
		15900	43.82	-30.18	74	47.26	37.2	20.48	61.12	100	0	P	H
		10600	43.69	-30.31	74	48.94	39.7	16.27	61.22	100	0	P	V
		15900	43.35	-30.65	74	46.79	37.2	20.48	61.12	100	0	P	V
802.11a CH 64 5320MHz		10640	43.7	-30.3	74	49.01	39.66	16.3	61.27	100	0	P	H
		15960	42.74	-31.26	74	46.3	37.02	20.47	61.05	100	0	P	H
		10640	44.58	-29.42	74	49.89	39.66	16.3	61.27	100	0	P	V
		15960	43.79	-30.21	74	47.35	37.02	20.47	61.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0	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)
		5138.38	55.37	-18.63	74	46.59	31.88	10.02	33.12	241	269	P	H
		5148.24	44.67	-9.33	54	35.86	31.9	10.03	33.12	241	269	A	H
	*	5260	113.05	-	-	104.67	31.38	10.11	33.11	241	269	P	H
	*	5260	105.01	-	-	96.63	31.38	10.11	33.11	241	269	A	H
802.11n		5361.6	52.5	-21.5	74	44.1	31.37	10.14	33.11	241	269	P	H
HT20		5350.32	43.13	-10.87	54	34.8	31.3	10.14	33.11	241	269	A	H
CH 52		5141.78	56.48	-17.52	74	47.69	31.88	10.03	33.12	103	276	P	V
5260MHz		5148.58	47.34	-6.66	54	38.53	31.9	10.03	33.12	103	276	A	V
	*	5260	115.27	-	-	106.89	31.38	10.11	33.11	103	276	P	V
	*	5260	107.6	-	-	99.22	31.38	10.11	33.11	103	276	A	V
		5356.32	55.41	-18.59	74	47.04	31.34	10.14	33.11	103	276	P	V
		5350.32	45.59	-8.41	54	37.26	31.3	10.14	33.11	103	276	A	V
		5089.08	52.67	-21.33	74	44.06	31.76	9.97	33.12	222	276	P	H
		5149.26	43.59	-10.41	54	34.78	31.9	10.03	33.12	222	276	A	H
	*	5300	112.56	-	-	104.25	31.3	10.12	33.11	222	276	P	H
	*	5300	105.13	-	-	96.82	31.3	10.12	33.11	222	276	A	H
802.11n		5360.64	53.99	-20.01	74	45.6	31.36	10.14	33.11	222	276	P	H
HT20		5351.04	45.43	-8.57	54	37.09	31.31	10.14	33.11	222	276	A	H
CH 60		5120.7	55.07	-18.93	74	46.35	31.84	10	33.12	100	276	P	V
5300MHz		5149.94	46.04	-7.96	54	37.23	31.9	10.03	33.12	100	276	A	V
	*	5300	114.59	-	-	106.28	31.3	10.12	33.11	100	276	P	V
	*	5300	107.47	-	-	99.16	31.3	10.12	33.11	100	276	A	V
		5352.72	55.89	-18.11	74	47.54	31.32	10.14	33.11	100	276	P	V
		5351.28	47.04	-6.96	54	38.7	31.31	10.14	33.11	100	276	A	V

WIFI Ant. 0	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)
	*	5320	111.37	-	-	103.05	31.3	10.13	33.11	223	272	P	H
	*	5320	104.09	-	-	95.77	31.3	10.13	33.11	223	272	A	H
802.11n		5350.56	56.93	-17.07	74	48.6	31.3	10.14	33.11	223	272	P	H
HT20		5350.08	47.37	-6.63	54	39.04	31.3	10.14	33.11	223	272	A	H
CH 64	*	5320	113.32	-	-	105	31.3	10.13	33.11	100	271	P	V
5320MHz	*	5320	105.97	-	-	97.65	31.3	10.13	33.11	100	271	A	V
		5350.24	59.31	-14.69	74	50.98	31.3	10.14	33.11	100	271	P	V
		5350.08	49.1	-4.9	54	40.77	31.3	10.14	33.11	100	271	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0	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		10520	44.39	-23.81	68.2	49.59	39.7	16.22	61.12	100	0	P	H
HT20		15780	44.11	-29.89	74	47.28	37.58	20.51	61.26	100	0	P	H
CH 52		10520	45.48	-22.72	68.2	50.68	39.7	16.22	61.12	100	0	P	V
5260MHz		15780	44.52	-29.48	74	47.69	37.58	20.51	61.26	100	0	P	V
802.11n		10600	44.19	-29.81	74	49.44	39.7	16.27	61.22	100	0	P	H
HT20		15900	44.51	-29.49	74	47.95	37.2	20.48	61.12	100	0	P	H
CH 60		10600	43.85	-30.15	74	49.1	39.7	16.27	61.22	100	0	P	V
5300MHz		15900	43.68	-30.32	74	47.12	37.2	20.48	61.12	100	0	P	V
802.11n		10640	43.22	-30.78	74	48.53	39.66	16.3	61.27	100	0	P	H
HT20		15960	43.49	-30.51	74	47.05	37.02	20.47	61.05	100	0	P	H
CH 64		10640	43.57	-30.43	74	48.88	39.66	16.3	61.27	100	0	P	V
5320MHz		15960	42.63	-31.37	74	46.19	37.02	20.47	61.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0	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 54 5270MHz		5127.84	52.88	-21.12	74	44.13	31.86	10.01	33.12	222	271	P	H
		5149.94	44.15	-9.85	54	35.34	31.9	10.03	33.12	222	271	A	H
	*	5270	110.66	-	-	102.3	31.36	10.11	33.11	222	271	P	H
	*	5270	102.8	-	-	94.44	31.36	10.11	33.11	222	271	A	H
		5352	55.63	-18.37	74	47.29	31.31	10.14	33.11	222	271	P	H
		5350.32	45.04	-8.96	54	36.71	31.3	10.14	33.11	222	271	A	H
		5148.24	56.11	-17.89	74	47.3	31.9	10.03	33.12	105	268	P	V
		5146.54	46.58	-7.42	54	37.78	31.89	10.03	33.12	105	268	A	V
	*	5270	113.49	-	-	105.13	31.36	10.11	33.11	105	268	P	V
	*	5270	105.03	-	-	96.67	31.36	10.11	33.11	105	268	A	V
		5354.16	55.51	-18.49	74	47.16	31.32	10.14	33.11	105	268	P	V
		5350.32	46.72	-7.28	54	38.39	31.3	10.14	33.11	105	268	A	V
802.11n HT40 CH 62 5310MHz		5115.94	52.12	-21.88	74	43.41	31.83	10	33.12	224	278	P	H
		5143.48	42.14	-11.86	54	33.34	31.89	10.03	33.12	224	278	A	H
	*	5310	105.9	-	-	97.59	31.3	10.12	33.11	224	278	P	H
	*	5310	98.03	-	-	89.72	31.3	10.12	33.11	224	278	A	H
		5350.32	58.35	-15.65	74	50.02	31.3	10.14	33.11	224	278	P	H
		5350.08	48.19	-5.81	54	39.86	31.3	10.14	33.11	224	278	A	H
		5092.14	52.29	-21.71	74	43.67	31.77	9.97	33.12	100	271	P	V
		5138.72	43.47	-10.53	54	34.69	31.88	10.02	33.12	100	271	A	V
	*	5310	107.54	-	-	99.23	31.3	10.12	33.11	100	271	P	V
	*	5310	99.76	-	-	91.45	31.3	10.12	33.11	100	271	A	V
		5350.08	58.89	-15.11	74	50.56	31.3	10.14	33.11	100	271	P	V
		5350.08	49.37	-4.63	54	41.04	31.3	10.14	33.11	100	271	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0	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		10540	42.72	-25.48	68.2	47.94	39.7	16.23	61.15	100	0	P	H
HT40		15810	43.98	-30.02	74	47.15	37.56	20.5	61.23	100	0	P	H
CH 54		10540	43.24	-24.96	68.2	48.46	39.7	16.23	61.15	100	0	P	V
5270MHz		15810	44.15	-29.85	74	47.32	37.56	20.5	61.23	100	0	P	V
802.11n		10620	41.86	-32.14	74	45.53	39.68	16.28	59.63	100	0	P	H
HT40		15930	42.13	-31.87	74	44.25	37.11	20.47	59.7	100	0	P	H
CH 62		10620	40.91	-33.09	74	44.58	39.68	16.28	59.63	100	0	P	V
5310MHz		15930	41.21	-32.79	74	43.33	37.11	20.47	59.7	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0	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 58 5290MHz		5149.4	51.78	-22.22	74	42.97	31.9	10.03	33.12	221	278	P	H
		5149.1	42.8	-11.2	54	33.99	31.9	10.03	33.12	221	278	A	H
	*	5290	101.87	-	-	93.54	31.32	10.12	33.11	221	278	P	H
	*	5290	93.76	-	-	85.43	31.32	10.12	33.11	221	278	A	H
		5358.48	58.12	-15.88	74	49.74	31.35	10.14	33.11	221	278	P	H
		5350.08	48.08	-5.92	54	39.75	31.3	10.14	33.11	221	278	A	H
		5140.7	53.68	-20.32	74	44.9	31.88	10.02	33.12	100	270	P	V
		5150	44.25	-9.75	54	35.44	31.9	10.03	33.12	100	270	A	V
	*	5290	103.96	-	-	95.63	31.32	10.12	33.11	100	270	P	V
	*	5290	95.48	-	-	87.15	31.32	10.12	33.11	100	270	A	V
		5351.28	59.97	-14.03	74	51.63	31.31	10.14	33.11	100	270	P	V
		5350.08	49.42	-4.58	54	41.09	31.3	10.14	33.11	100	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0	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		10580	43.49	-24.71	68.2	47.07	39.7	16.26	59.54	100	0	P	H
VHT80		15870	42.13	-31.87	74	44.06	37.32	20.49	59.74	100	0	P	H
CH 58		10580	42.9	-25.3	68.2	46.48	39.7	16.26	59.54	100	0	P	V
5290MHz		15870	41.8	-32.2	74	43.73	37.32	20.49	59.74	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (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.	
0		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.64	55.77	-18.23	74	46.91	31.73	10.24	33.11	223	276	P	H
		5467.76	58.71	-9.49	68.2	49.79	31.77	10.26	33.11	223	276	P	H
		5460	45.67	-8.33	54	36.8	31.74	10.24	33.11	223	276	A	H
	*	5500	110.82	-	-	101.72	31.9	10.31	33.11	223	276	P	H
	*	5500	103.52	-	-	94.42	31.9	10.31	33.11	223	276	A	H
		5458.64	56.81	-17.19	74	47.95	31.73	10.24	33.11	102	270	P	V
		5467.6	61.23	-6.97	68.2	52.32	31.77	10.25	33.11	102	270	P	V
		5460	47	-7	54	38.13	31.74	10.24	33.11	102	270	A	V
	*	5500	113.33	-	-	104.23	31.9	10.31	33.11	102	270	P	V
	*	5500	105.96	-	-	96.86	31.9	10.31	33.11	102	270	A	V
802.11a CH 116 5580MHz		5442.16	54.06	-19.94	74	45.27	31.68	10.22	33.11	235	272	P	H
		5460	53.77	-14.43	68.2	44.9	31.74	10.24	33.11	235	272	P	H
		5459.92	44.46	-9.54	54	35.59	31.74	10.24	33.11	235	272	A	H
	*	5580	112.85	-	-	103.76	31.8	10.43	33.14	235	272	P	H
	*	5580	105.55	-	-	96.46	31.8	10.43	33.14	235	272	A	H
		5728.145	50.71	-17.49	68.2	41.3	32.06	10.53	33.18	235	272	P	H
		5452.96	55.47	-18.53	74	46.64	31.71	10.23	33.11	100	271	P	V
		5463.76	54.81	-13.39	68.2	45.91	31.76	10.25	33.11	100	271	P	V
		5459.92	46.06	-7.94	54	37.19	31.74	10.24	33.11	100	271	A	V
	*	5580	115.91	-	-	106.82	31.8	10.43	33.14	100	271	P	V
	*	5580	108.67	-	-	99.58	31.8	10.43	33.14	100	271	A	V
		5756.495	52.35	-15.85	68.2	42.88	32.11	10.55	33.19	100	271	P	V

WIFI Ant. 0	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 140 5700MHz	*	5700	107.54	-	-	98.2	32	10.51	33.17	240	224	P	H
	*	5700	100.29	-	-	90.95	32	10.51	33.17	240	224	A	H
		5726.36	55.77	-12.43	68.2	46.37	32.05	10.53	33.18	240	224	P	H
	*	5700	111.64	-	-	102.3	32	10.51	33.17	100	277	P	V
	*	5700	104.37	-	-	95.03	32	10.51	33.17	100	277	A	V
		5725.08	61.2	-7	68.2	51.8	32.05	10.53	33.18	100	277	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0	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 100 5500MHz		11000	45.92	-28.08	74	51.11	40	16.51	61.7	100	0	P	H
		16500	45.56	-22.64	68.2	45.41	38.7	21.15	59.7	100	0	P	H
		11000	44.91	-29.09	74	50.1	40	16.51	61.7	100	0	P	V
		16500	45.22	-22.98	68.2	45.07	38.7	21.15	59.7	100	0	P	V
802.11a CH 116 5580MHz		11160	48.35	-25.65	74	53.99	39.48	16.74	61.86	100	0	P	H
		16740	46.83	-21.37	68.2	45.44	39.56	21.48	59.65	100	0	P	H
		11160	48.12	-25.88	74	53.76	39.48	16.74	61.86	100	0	P	V
		16740	47.33	-20.87	68.2	45.94	39.56	21.48	59.65	100	0	P	V
802.11a CH 140 5700MHz		11400	47.38	-26.62	74	52.69	39.7	17.09	62.1	100	0	P	H
		17100	47.9	-20.3	68.2	45.24	40.1	21.94	59.38	100	0	P	H
		11400	47.93	-26.07	74	53.24	39.7	17.09	62.1	100	0	P	V
		17100	46.69	-21.51	68.2	44.03	40.1	21.94	59.38	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0	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)
		5459.92	55.47	-18.53	74	46.6	31.74	10.24	33.11	220	232	P	H
		5468.72	61.09	-7.11	68.2	52.17	31.77	10.26	33.11	220	232	P	H
		5459.92	44.97	-9.03	54	36.1	31.74	10.24	33.11	220	232	A	H
802.11n	*	5500	111.22	-	-	102.12	31.9	10.31	33.11	220	232	P	H
HT20	*	5500	102.73	-	-	93.63	31.9	10.31	33.11	220	232	A	H
CH 100		5458	56.53	-17.47	74	47.67	31.73	10.24	33.11	102	269	P	V
5500MHz		5469.04	63.44	-4.76	68.2	54.51	31.78	10.26	33.11	102	269	P	V
		5460	47.06	-6.94	54	38.19	31.74	10.24	33.11	102	269	A	V
	*	5500	114.12	-	-	105.02	31.9	10.31	33.11	102	269	P	V
	*	5500	105.86	-	-	96.76	31.9	10.31	33.11	102	269	A	V
		5434.72	54.08	-19.92	74	45.32	31.67	10.2	33.11	219	274	P	H
		5463.04	53.27	-14.93	68.2	44.38	31.75	10.25	33.11	219	274	P	H
		5459.92	44.45	-9.55	54	35.58	31.74	10.24	33.11	219	274	A	H
	*	5580	112.63	-	-	103.54	31.8	10.43	33.14	219	274	P	H
802.11n	*	5580	105.5	-	-	96.41	31.8	10.43	33.14	219	274	A	H
HT20		5725.31	50.74	-17.46	68.2	41.34	32.05	10.53	33.18	219	274	P	H
CH 116		5459.2	55.34	-18.66	74	46.47	31.74	10.24	33.11	101	272	P	V
5580MHz		5468.56	55.42	-12.78	68.2	46.5	31.77	10.26	33.11	101	272	P	V
		5459.92	45.98	-8.02	54	37.11	31.74	10.24	33.11	101	272	A	V
	*	5580	115.7	-	-	106.61	31.8	10.43	33.14	101	272	P	V
	*	5580	108.54	-	-	99.45	31.8	10.43	33.14	101	272	A	V
		5745.155	51.04	-17.16	68.2	41.6	32.09	10.54	33.19	101	272	P	V

WIFI Ant. 0	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 140 5700MHz	*	5700	108.29	-	-	98.95	32	10.51	33.17	240	219	P	H
	*	5700	100.66	-	-	91.32	32	10.51	33.17	240	219	A	H
		5725.64	57.71	-10.49	68.2	48.31	32.05	10.53	33.18	240	219	P	H
	*	5700	112.31	-	-	102.97	32	10.51	33.17	100	278	P	V
	*	5700	104.69	-	-	95.35	32	10.51	33.17	100	278	A	V
		5725.56	62.49	-5.71	68.2	53.09	32.05	10.53	33.18	100	278	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0	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		11000	46.88	-27.12	74	52.07	40	16.51	61.7	100	0	P	H
HT20		16500	45.88	-22.32	68.2	45.73	38.7	21.15	59.7	100	0	P	H
CH 100		11000	45.48	-28.52	74	50.67	40	16.51	61.7	100	0	P	V
5500MHz		16500	45.68	-22.52	68.2	45.53	38.7	21.15	59.7	100	0	P	V
802.11n		11160	47.62	-26.38	74	53.26	39.48	16.74	61.86	100	0	P	H
HT20		16740	46.47	-21.73	68.2	45.08	39.56	21.48	59.65	100	0	P	H
CH 116		11160	46.09	-27.91	74	51.73	39.48	16.74	61.86	100	0	P	V
5580MHz		16740	46.4	-21.8	68.2	45.01	39.56	21.48	59.65	100	0	P	V
802.11n		11400	48.74	-25.26	74	54.05	39.7	17.09	62.1	100	0	P	H
HT20		17100	48.02	-20.18	68.2	45.36	40.1	21.94	59.38	100	0	P	H
CH 140		11400	47.86	-26.14	74	53.17	39.7	17.09	62.1	100	0	P	V
5700MHz		17100	47.41	-20.79	68.2	44.75	40.1	21.94	59.38	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0	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 102 5510MHz		5458.48	53.18	-20.82	74	44.32	31.73	10.24	33.11	218	274	P	H
		5469.76	59.85	-8.35	68.2	50.92	31.78	10.26	33.11	218	274	P	H
		5459.92	43.99	-10.01	54	35.12	31.74	10.24	33.11	218	274	A	H
	*	5510	104.1	-	-	95.01	31.88	10.32	33.11	218	274	P	H
	*	5510	96.36	-	-	87.27	31.88	10.32	33.11	218	274	A	H
		5742.635	48.55	-19.65	68.2	39.11	32.09	10.54	33.19	218	274	P	H
		5458.96	57.33	-16.67	74	48.46	31.74	10.24	33.11	100	269	P	V
		5469.52	63.07	-5.13	68.2	54.14	31.78	10.26	33.11	100	269	P	V
		5459.92	45.78	-8.22	54	36.91	31.74	10.24	33.11	100	269	A	V
	*	5510	106.35	-	-	97.26	31.88	10.32	33.11	100	269	P	V
	*	5510	98.48	-	-	89.39	31.88	10.32	33.11	100	269	A	V
		5733.185	48.98	-19.22	68.2	39.56	32.07	10.53	33.18	100	269	P	V
802.11n HT40 CH 110 5550MHz		5449.36	56.65	-17.35	74	47.83	31.7	10.23	33.11	225	227	P	H
		5466.88	58.64	-9.56	68.2	49.73	31.77	10.25	33.11	225	227	P	H
		5459.92	46.11	-7.89	54	37.24	31.74	10.24	33.11	225	227	A	H
	*	5550	110.17	-	-	101.12	31.8	10.38	33.13	225	227	P	H
	*	5550	102.14	-	-	93.09	31.8	10.38	33.13	225	227	A	H
		5742.95	49.54	-18.66	68.2	40.1	32.09	10.54	33.19	225	227	P	H
		5459.92	59.52	-14.48	74	50.65	31.74	10.24	33.11	100	270	P	V
		5466.64	61.04	-7.16	68.2	52.13	31.77	10.25	33.11	100	270	P	V
		5459.92	48.94	-5.06	54	40.07	31.74	10.24	33.11	100	270	A	V
	*	5550	114	-	-	104.95	31.8	10.38	33.13	100	270	P	V
	*	5550	105.72	-	-	96.67	31.8	10.38	33.13	100	270	A	V
		5725.31	50.86	-17.34	68.2	41.46	32.05	10.53	33.18	100	270	P	V

WIFI Ant. 0	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 134 5670MHz		5444.5	50.82	-23.18	74	42.02	31.69	10.22	33.11	232	272	P	H
		5462.35	50.68	-17.52	68.2	41.79	31.75	10.25	33.11	232	272	P	H
		5459.9	41.97	-12.03	54	33.1	31.74	10.24	33.11	232	272	A	H
	*	5670	106.66	-	-	97.5	31.82	10.5	33.16	232	272	P	H
	*	5670	98.65	-	-	89.49	31.82	10.5	33.16	232	272	A	H
		5725	53.42	-14.78	68.2	44.02	32.05	10.53	33.18	232	272	P	H
		5459.9	51.75	-22.25	74	42.88	31.74	10.24	33.11	100	294	P	V
		5461.65	51.37	-16.83	68.2	42.48	31.75	10.25	33.11	100	294	P	V
		5459.55	42.63	-11.37	54	33.76	31.74	10.24	33.11	100	294	A	V
	*	5670	111.39	-	-	102.23	31.82	10.5	33.16	100	294	P	V
	*	5670	102.46	-	-	93.3	31.82	10.5	33.16	100	294	A	V
		5725.45	58.63	-9.57	68.2	49.23	32.05	10.53	33.18	100	294	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0	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		11020	45.54	-28.46	74	50.8	39.92	16.54	61.72	100	0	P	H
HT40		16530	45.57	-22.63	68.2	45.31	38.76	21.19	59.69	100	0	P	H
CH 102		11020	45.61	-28.39	74	50.87	39.92	16.54	61.72	100	0	P	V
5510MHz		16530	45.56	-22.64	68.2	45.3	38.76	21.19	59.69	100	0	P	V
802.11n		11100	46.76	-27.24	74	52.3	39.6	16.66	61.8	100	0	P	H
HT40		16650	46.59	-21.61	68.2	45.85	39.05	21.36	59.67	100	0	P	H
CH 110		11100	44.96	-29.04	74	50.5	39.6	16.66	61.8	100	0	P	V
5550MHz		16650	46.62	-21.58	68.2	45.88	39.05	21.36	59.67	100	0	P	V
802.11n		11340	46.19	-27.81	74	51.64	39.58	17.01	62.04	100	0	P	H
HT40		17010	46.87	-21.33	68.2	44.59	40.01	21.85	59.58	100	0	P	H
CH 134		11340	45.36	-28.64	74	50.81	39.58	17.01	62.04	100	0	P	V
5670MHz		17010	47.11	-21.09	68.2	44.83	40.01	21.85	59.58	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0	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)
		5456.8	58.93	-15.07	74	50.07	31.73	10.24	33.11	230	275	P	H
		5470	59.73	-8.47	68.2	50.8	31.78	10.26	33.11	230	275	P	H
		5459.92	47.8	-6.2	54	38.93	31.74	10.24	33.11	230	275	A	H
	*	5530	99.96	-	-	90.89	31.84	10.35	33.12	230	275	P	H
802.11ac	*	5530	91.57	-	-	82.5	31.84	10.35	33.12	230	275	A	H
VHT80		5728.775	50.76	-17.44	68.2	41.35	32.06	10.53	33.18	230	275	P	H
CH 106		5458.96	62.62	-11.38	74	53.75	31.74	10.24	33.11	100	274	P	V
5530MHz		5468.32	64.51	-3.69	68.2	55.59	31.77	10.26	33.11	100	274	P	V
		5459.92	49.54	-4.46	54	40.67	31.74	10.24	33.11	100	274	A	V
	*	5530	101.94	-	-	92.87	31.84	10.35	33.12	100	274	P	V
	*	5530	93.43	-	-	84.36	31.84	10.35	33.12	100	274	A	V
		5760.275	50.21	-17.99	68.2	40.73	32.12	10.55	33.19	100	274	P	V
		5457.1	52.34	-21.66	74	43.48	31.73	10.24	33.11	221	229	P	H
		5467.25	53.8	-14.4	68.2	44.89	31.77	10.25	33.11	221	229	P	H
		5459.55	44.15	-9.85	54	35.28	31.74	10.24	33.11	221	229	A	H
	*	5610	104.8	-	-	95.7	31.78	10.47	33.15	221	229	P	H
802.11ac	*	5610	95.93	-	-	86.83	31.78	10.47	33.15	221	229	A	H
VHT80		5725.625	53.69	-14.51	68.2	44.29	32.05	10.53	33.18	221	229	P	H
CH 122		5459.55	57.02	-16.98	74	48.15	31.74	10.24	33.11	100	270	P	V
5610MHz		5467.6	59.21	-8.99	68.2	50.3	31.77	10.25	33.11	100	270	P	V
		5459.9	46.59	-7.41	54	37.72	31.74	10.24	33.11	100	270	A	V
	*	5610	108.16	-	-	99.06	31.78	10.47	33.15	100	270	P	V
	*	5610	99.75	-	-	90.65	31.78	10.47	33.15	100	270	A	V
		5730.875	56.03	-12.17	68.2	46.62	32.06	10.53	33.18	100	270	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0	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		11060	44.22	-29.78	74	48.37	39.76	16.6	60.51	100	0	P	H
VHT80		16590	44.68	-23.52	68.2	43.25	38.88	21.28	58.73	100	0	P	H
CH 106		11060	43.7	-30.3	74	47.85	39.76	16.6	60.51	100	0	P	V
5530MHz		16590	44.23	-23.97	68.2	42.8	38.88	21.28	58.73	100	0	P	V
802.11ac		11220	46.03	-27.97	74	51.7	39.42	16.83	61.92	100	0	P	H
VHT80		16830	47.01	-21.19	68.2	44.99	40.04	21.61	59.63	100	0	P	H
CH 122		11220	45.56	-28.44	74	51.23	39.42	16.83	61.92	100	0	P	V
5610MHz		16830	46.91	-21.29	68.2	44.89	40.04	21.61	59.63	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (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.	
0		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5425.27	50.29	-23.71	74	41.56	31.65	10.19	33.11	222	272	P	H
		5461.15	50.13	-18.07	68.2	41.26	31.74	10.24	33.11	222	272	P	H
		5459.98	41.4	-12.6	54	32.53	31.74	10.24	33.11	222	272	A	H
	*	5720	110.67	-	-	101.28	32.04	10.53	33.18	222	272	P	H
	*	5720	103.03	-	-	93.64	32.04	10.53	33.18	222	272	A	H
		5905.25	50.41	-17.79	68.2	40.53	32.51	10.61	33.24	222	272	P	H
		5459.59	52.17	-21.83	74	43.3	31.74	10.24	33.11	100	275	P	V
		5469.34	51.82	-16.38	68.2	42.89	31.78	10.26	33.11	100	275	P	V
		5459.98	42.58	-11.42	54	33.71	31.74	10.24	33.11	100	275	A	V
	*	5720	114.78	-	-	105.39	32.04	10.53	33.18	100	275	P	V
	*	5720	107.32	-	-	97.93	32.04	10.53	33.18	100	275	A	V
		5869.25	52.05	-16.15	68.2	42.3	32.38	10.6	33.23	100	275	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0	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 144 5720MHz		11440	49.72	-24.28	74	55.01	39.7	17.15	62.14	100	0	P	H
		17160	46.71	-21.49	68.2	43.69	40.28	21.99	59.25	100	0	P	H
		11440	53.01	-20.99	74	58.3	39.7	17.15	62.14	200	181	P	V
		11440	42.71	-11.29	54	48	39.7	17.15	62.14	200	181	A	V
		17160	46.85	-21.35	68.2	43.83	40.28	21.99	59.25	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0	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 144 5720MHz		5429.17	51.18	-22.82	74	42.43	31.66	10.2	33.11	223	276	P	H
		5460.37	51.59	-16.61	68.2	42.72	31.74	10.24	33.11	223	276	P	H
		5459.98	41.64	-12.36	54	32.77	31.74	10.24	33.11	223	276	A	H
	*	5720	110.37	-	-	100.98	32.04	10.53	33.18	223	276	P	H
	*	5720	102.96	-	-	93.57	32.04	10.53	33.18	223	276	A	H
		5869.5	50.93	-17.27	68.2	41.18	32.38	10.6	33.23	223	276	P	H
		5454.91	52.55	-21.45	74	43.7	31.72	10.24	33.11	100	292	P	V
		5469.34	51.56	-16.64	68.2	42.63	31.78	10.26	33.11	100	292	P	V
		5459.98	42.28	-11.72	54	33.41	31.74	10.24	33.11	100	292	A	V
	*	5720	114.47	-	-	105.08	32.04	10.53	33.18	100	292	P	V
	*	5720	107.21	-	-	97.82	32.04	10.53	33.18	100	292	A	V
		5864	52.48	-15.72	68.2	42.75	32.36	10.6	33.23	100	292	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0	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 144 5720MHz		11440	49.58	-24.42	74	54.87	39.7	17.15	62.14	100	0	P	H
		17160	47.56	-20.64	68.2	44.54	40.28	21.99	59.25	100	0	P	H
		11440	57.61	-16.39	74	62.9	39.7	17.15	62.14	200	209	P	V
		11440	47.25	-6.75	54	52.54	39.7	17.15	62.14	200	209	A	V
		17160	47.59	-20.61	68.2	44.57	40.28	21.99	59.25	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0	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 142 5710MHz		5458.03	51.73	-22.27	74	42.87	31.73	10.24	33.11	216	276	P	H
		5469.34	51.77	-16.43	68.2	42.84	31.78	10.26	33.11	216	276	P	H
		5459.98	41.33	-12.67	54	32.46	31.74	10.24	33.11	216	276	A	H
	*	5710	109.77	-	-	100.41	32.02	10.52	33.18	216	276	P	H
	*	5710	101.75	-	-	92.39	32.02	10.52	33.18	216	276	A	H
		5907.5	51.24	-16.96	68.2	41.36	32.51	10.61	33.24	216	276	P	H
		5459.2	51.95	-22.05	74	43.08	31.74	10.24	33.11	100	292	P	V
		5469.34	52.28	-15.92	68.2	43.35	31.78	10.26	33.11	100	292	P	V
		5459.98	42.16	-11.84	54	33.29	31.74	10.24	33.11	100	292	A	V
	*	5710	113.65	-	-	104.29	32.02	10.52	33.18	100	292	P	V
	*	5710	105.64	-	-	96.28	32.02	10.52	33.18	100	292	A	V
		5852.75	51.62	-16.58	68.2	41.94	32.31	10.59	33.22	100	292	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0	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		11420	48.27	-25.73	74	53.57	39.7	17.12	62.12	100	0	P	H
HT40		17130	46.93	-21.27	68.2	44.09	40.19	21.96	59.31	100	0	P	H
CH 142		11420	48.27	-25.73	74	53.57	39.7	17.12	62.12	100	0	P	V
5710MHz		17130	46.55	-21.65	68.2	43.71	40.19	21.96	59.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0	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 138 5690MHz		5458.81	51.95	-22.05	74	43.08	31.74	10.24	33.11	229	227	P	H
		5464.66	53.22	-14.98	68.2	44.32	31.76	10.25	33.11	229	227	P	H
		5459.98	42.49	-11.51	54	33.62	31.74	10.24	33.11	229	227	A	H
	*	5690	106.07	-	-	96.79	31.94	10.51	33.17	229	227	P	H
	*	5690	97.47	-	-	88.19	31.94	10.51	33.17	229	227	A	H
		5861.8	51.56	-16.64	68.2	41.85	32.35	10.59	33.23	229	227	P	H
		5458.42	54.07	-19.93	74	45.21	31.73	10.24	33.11	100	294	P	V
		5466.61	54.35	-13.85	68.2	45.44	31.77	10.25	33.11	100	294	P	V
		5459.98	44.47	-9.53	54	35.6	31.74	10.24	33.11	100	294	A	V
	*	5690	109.9	-	-	100.62	31.94	10.51	33.17	100	294	P	V
	*	5690	101.58	-	-	92.3	31.94	10.51	33.17	100	294	A	V
		5855.5	55.31	-12.89	68.2	45.62	32.32	10.59	33.22	100	294	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0	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		11380	45.37	-28.63	74	50.73	39.66	17.06	62.08	100	0	P	H
VHT80		17070	47.07	-21.13	68.2	44.54	40.07	21.91	59.45	100	0	P	H
CH 138		11380	46.58	-27.42	74	51.94	39.66	17.06	62.08	100	0	P	V
5690MHz		17070	47.42	-20.78	68.2	44.89	40.07	21.91	59.45	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.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		178.41	33.82	-9.68	43.5	49.31	14.88	1.77	32.26	-	-	P	H
		272.5	39.75	-6.25	46	50.9	18.8	2.17	32.2	100	0	P	H
		331.67	34.63	-11.37	46	44.7	19.62	2.41	32.17	-	-	P	H
		941.8	33.04	-12.96	46	29.66	30.06	4.1	30.97	-	-	P	H
		953.44	33.14	-12.86	46	28.96	30.72	4.13	30.86	-	-	P	H
		959.26	33.64	-12.36	46	29.13	30.97	4.14	30.8	-	-	P	H
		30.97	32.08	-7.92	40	40.09	23.58	0.77	32.37	100	0	P	V
		177.44	28.92	-14.58	43.5	44.37	14.93	1.77	32.26	-	-	P	V
		272.5	34.69	-11.31	46	45.84	18.8	2.17	32.2	-	-	P	V
		935.98	32.8	-13.2	46	29.79	29.76	4.09	31.02	-	-	P	V
		950.53	33	-13	46	28.98	30.6	4.12	30.89	-	-	P	V
		955.38	33.62	-12.38	46	29.33	30.81	4.13	30.84	-	-	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.	
0		(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

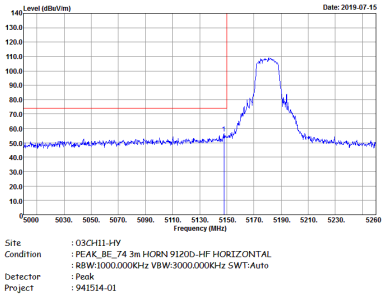
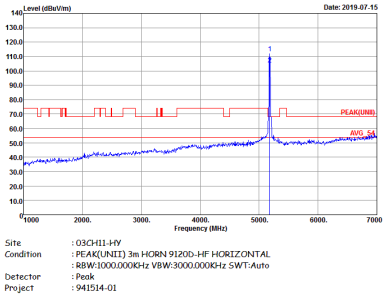
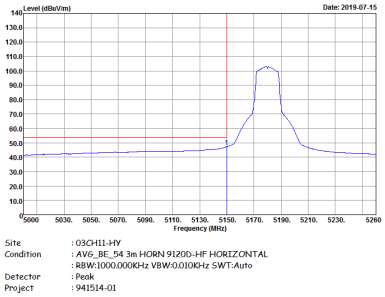
Test Engineer :	Bill Kuo, Fu Chen and Troye Hsieh	**Temperature :**	22.1~28.7°C
		Relative Humidity :	50.2~56.7%

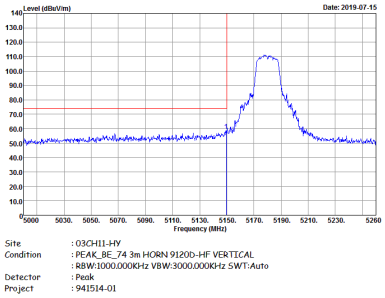
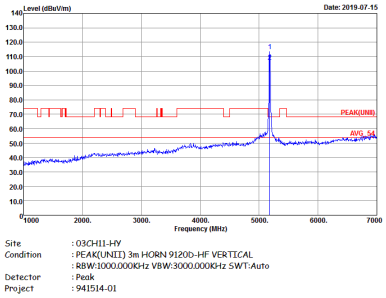
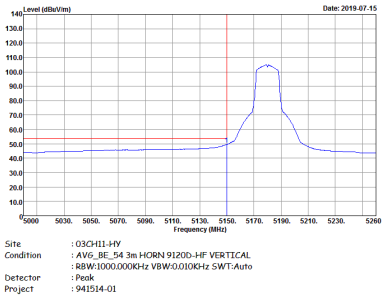
Note symbol

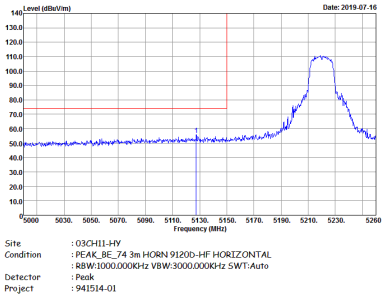
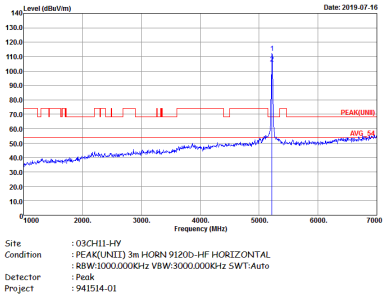
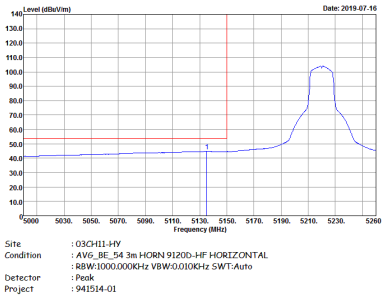
-L	**Low channel location**
-R	**High channel location**

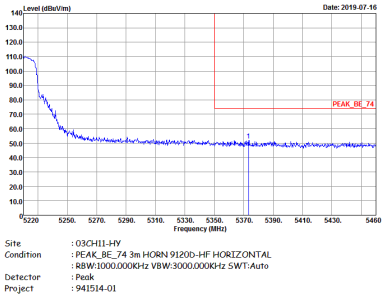
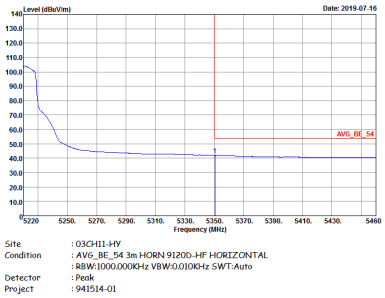
Band 1 - 5150~5250MHz

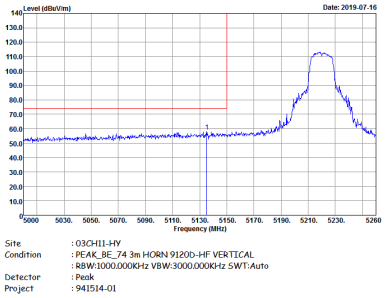
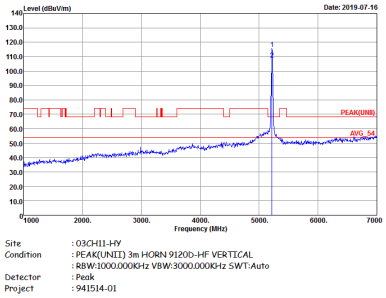
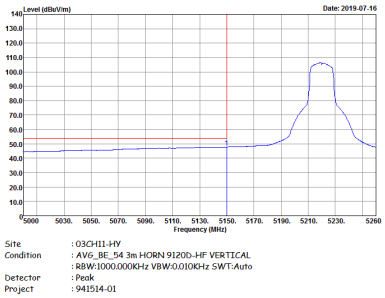
WIFI 802.11a (Band Edge @ 3m)

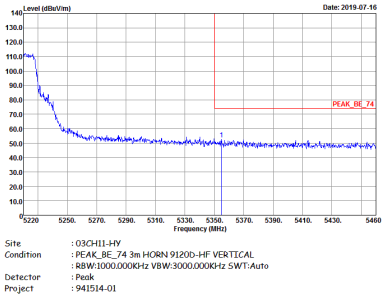
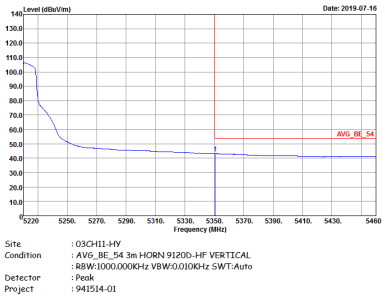
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

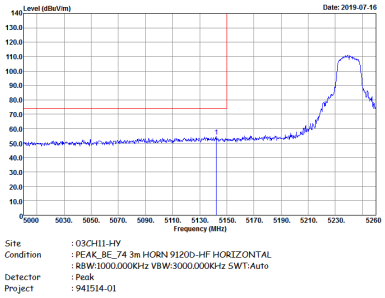
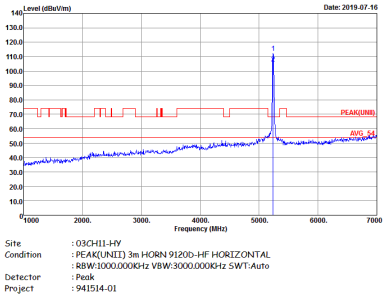
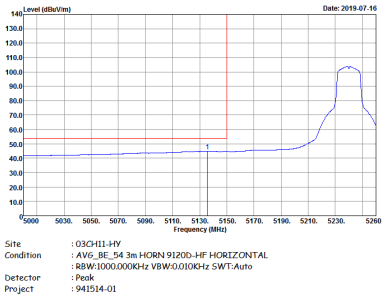
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

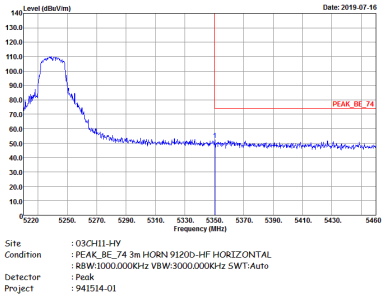
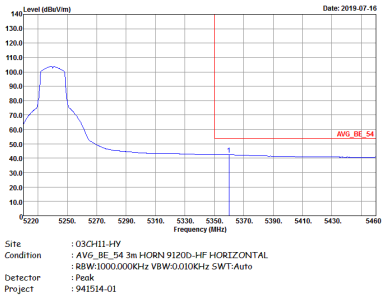
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

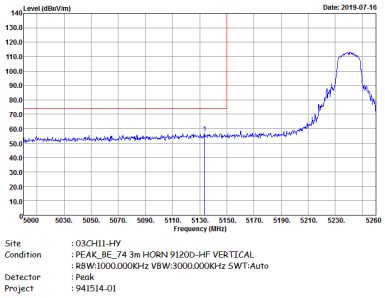
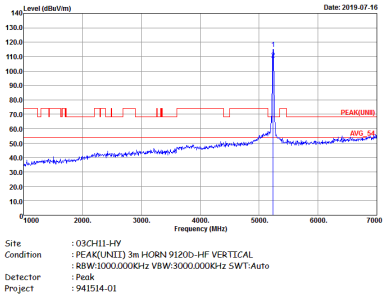
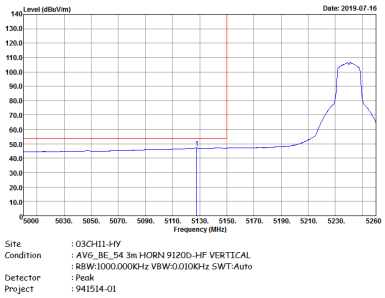
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

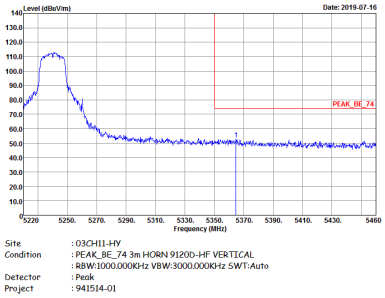
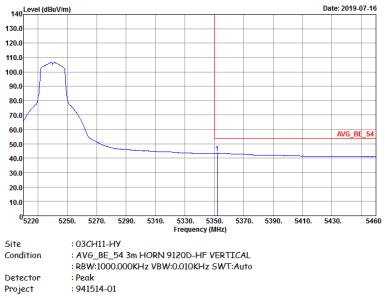
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

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

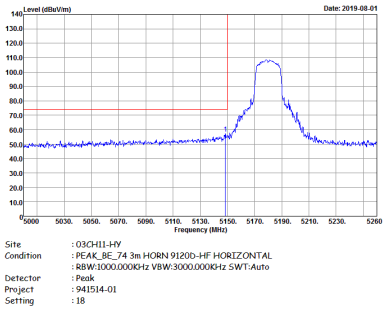
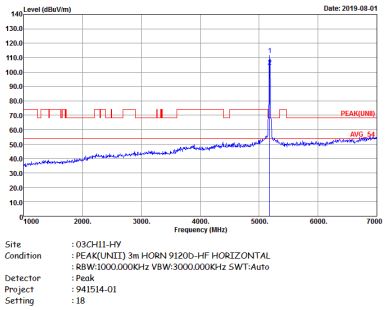
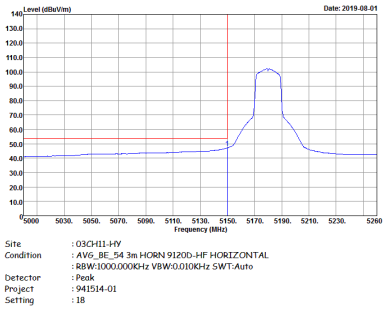
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

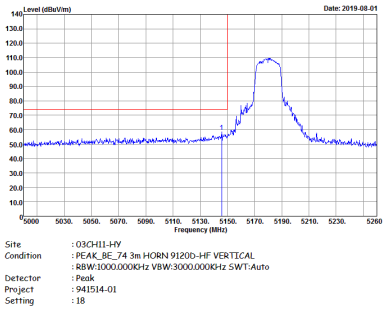
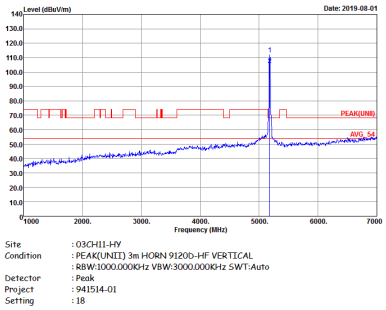
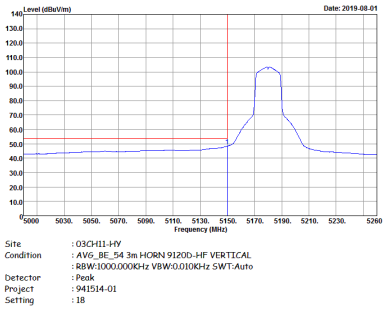
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

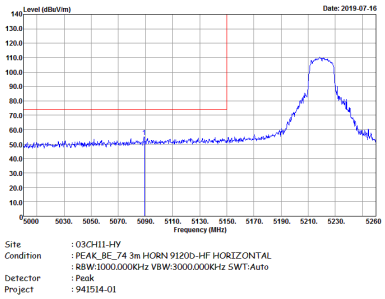
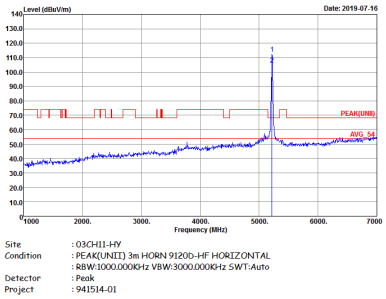
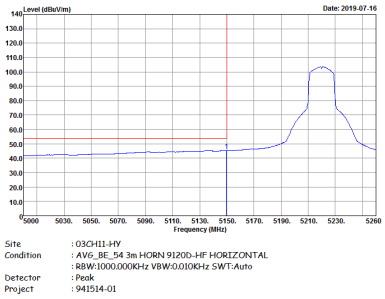
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

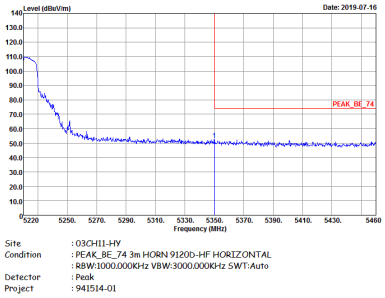
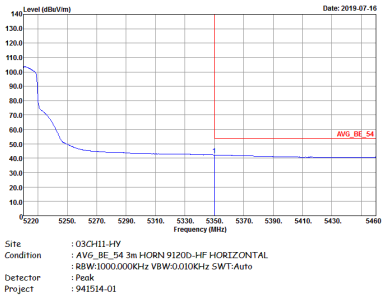
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

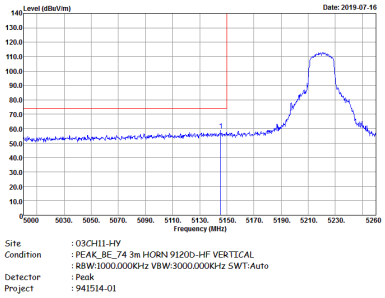
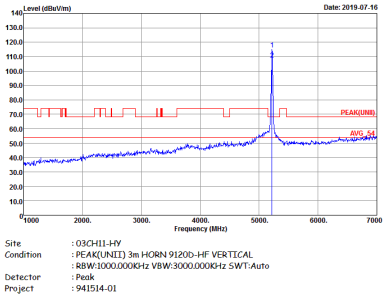
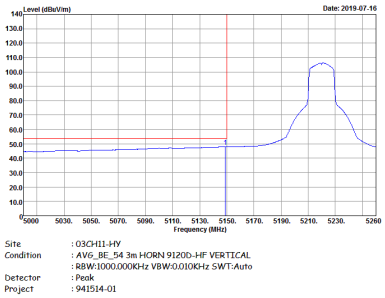
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

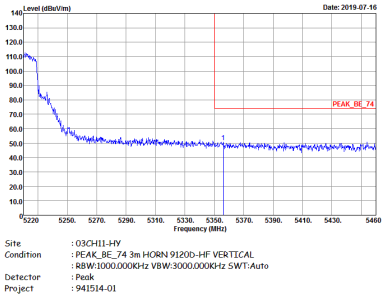
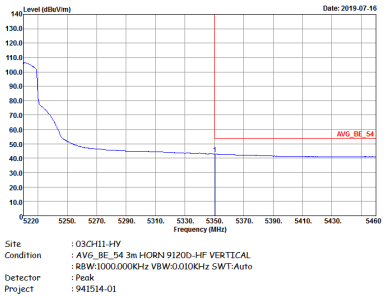
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

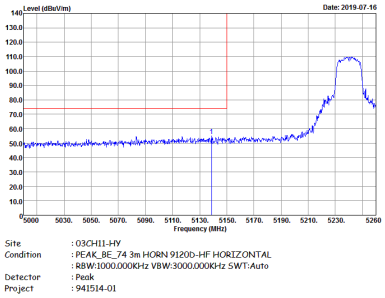
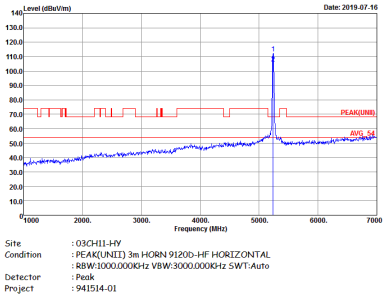
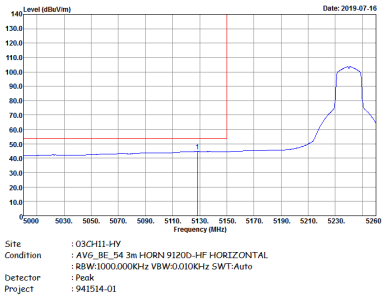
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

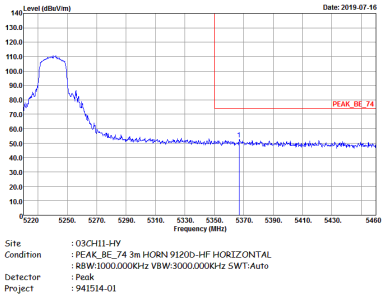
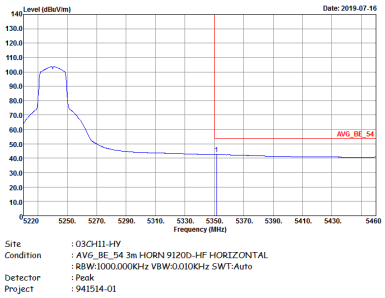
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

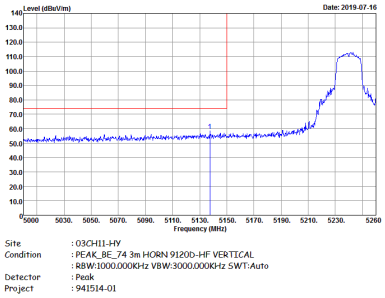
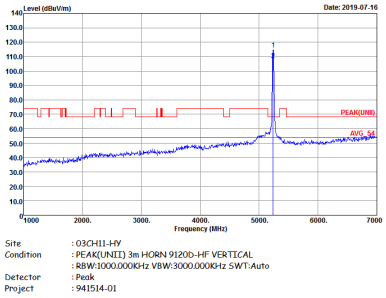
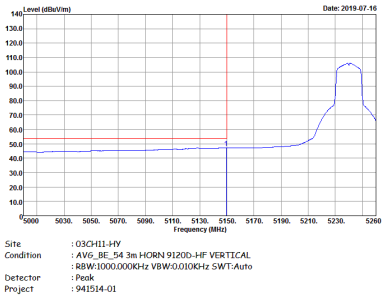
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

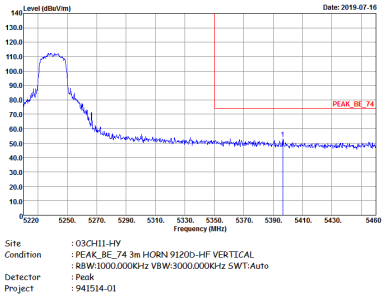
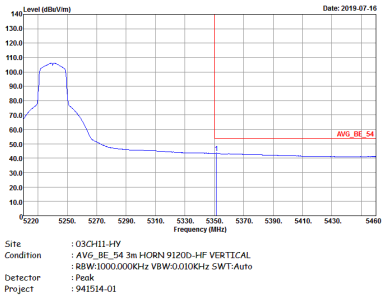
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

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

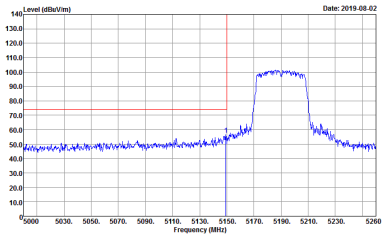
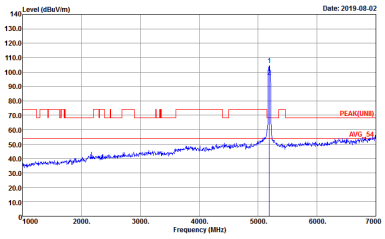
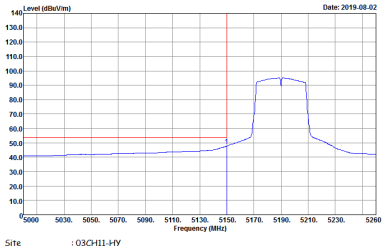
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

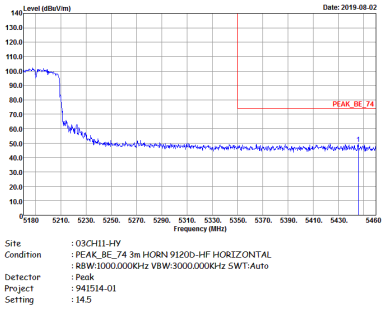
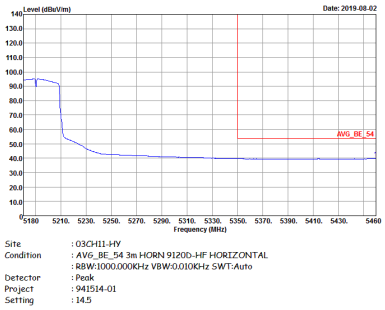
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

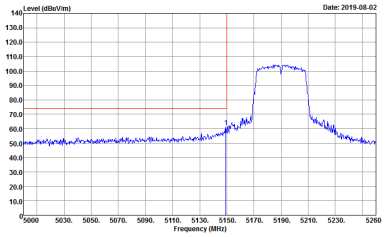
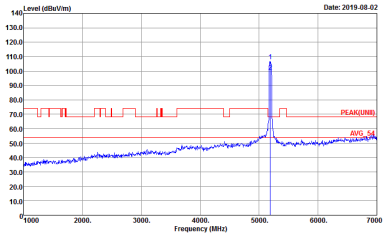
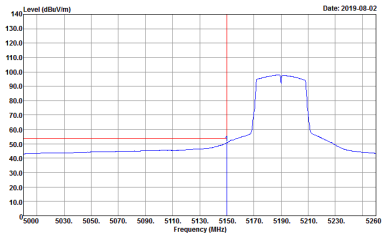
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

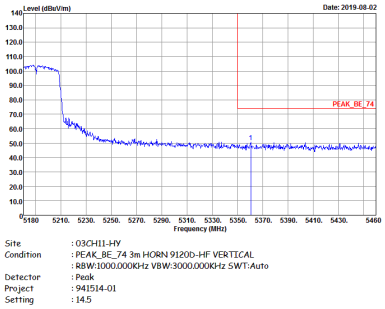
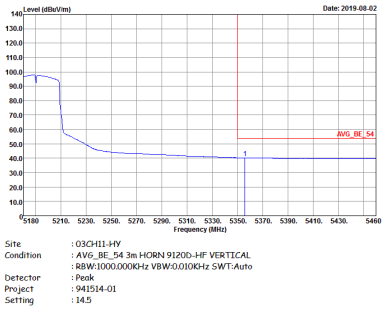
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

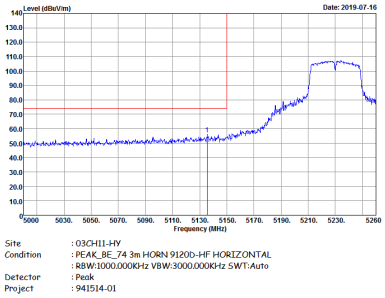
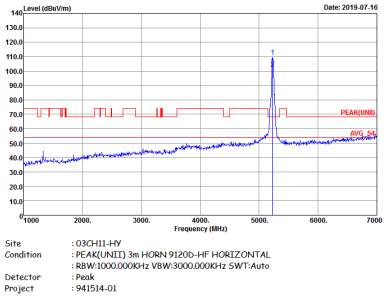
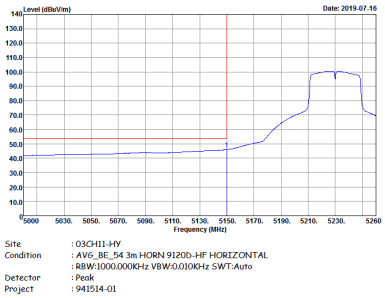
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

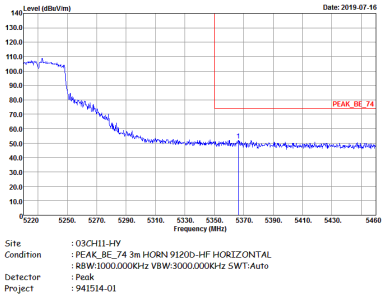
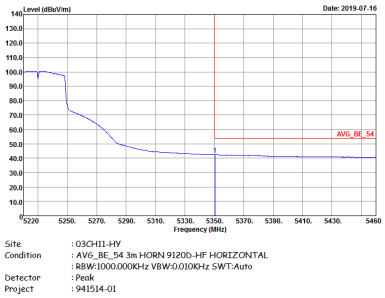
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	Left blank

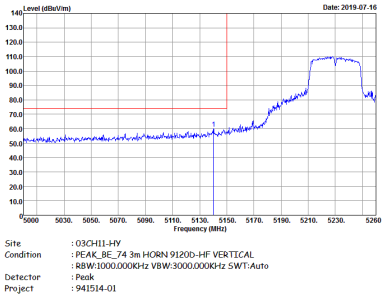
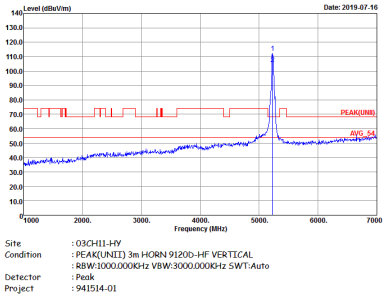
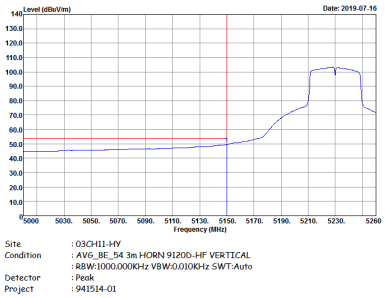
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

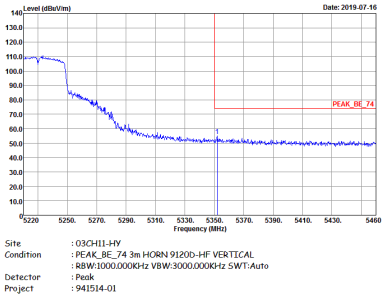
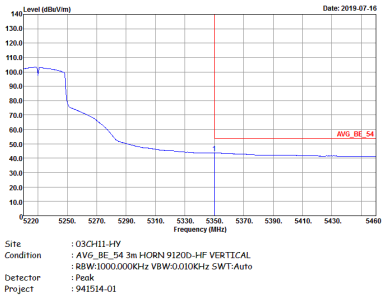
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 14.5	Left blank

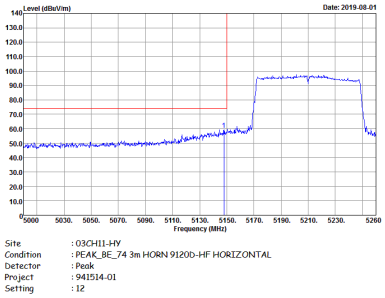
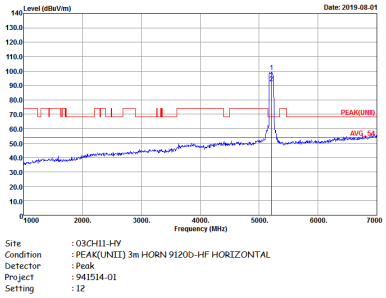
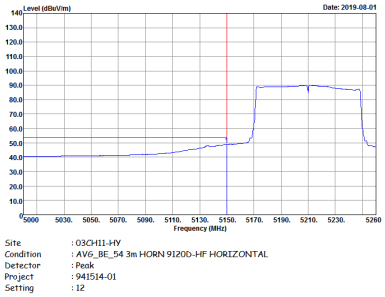
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

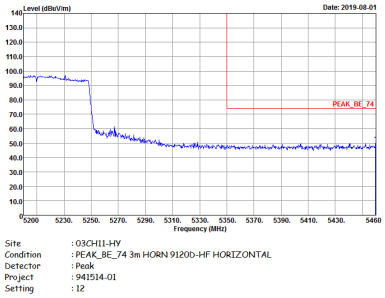
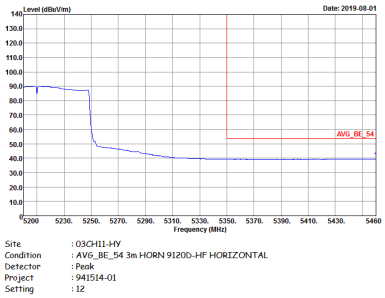
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

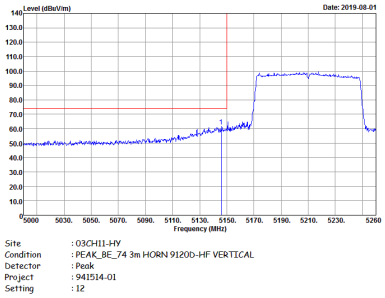
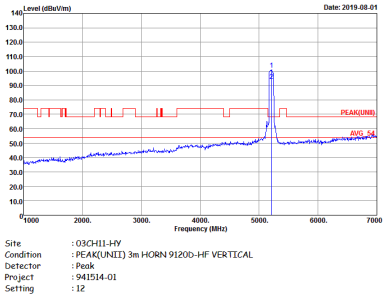
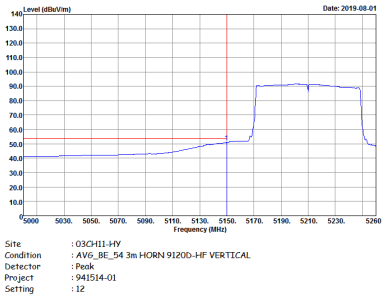
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

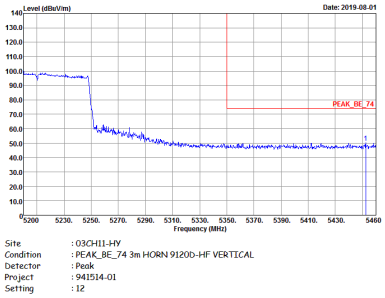
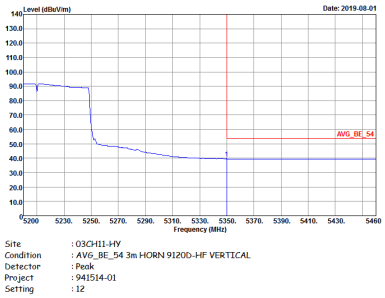
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

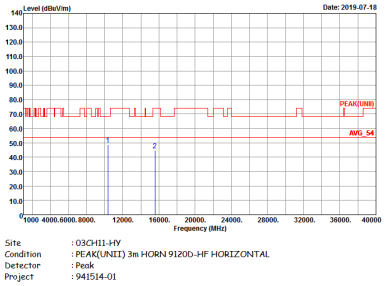
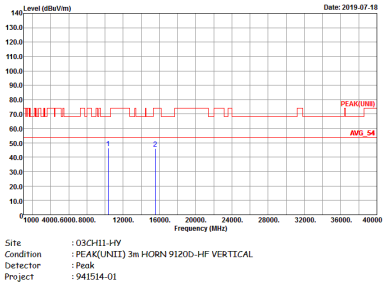
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

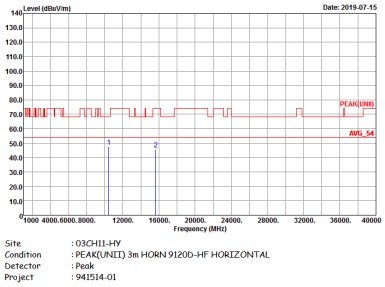
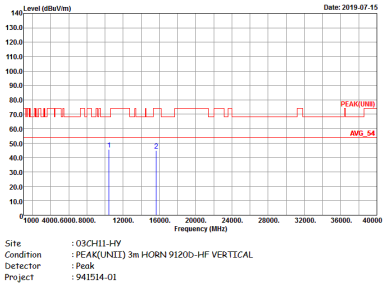
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

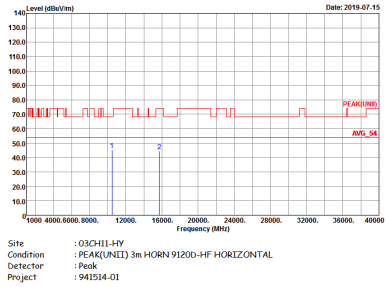
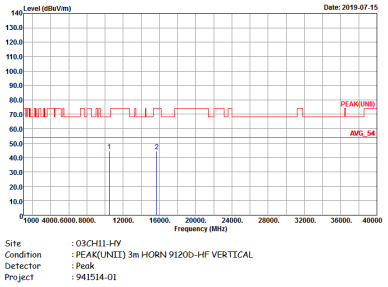
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

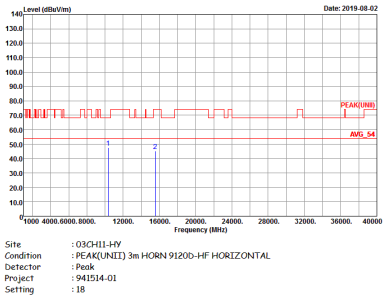
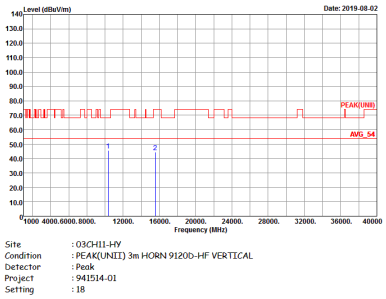
WIFI 802.11a (Harmonic @ 3m)

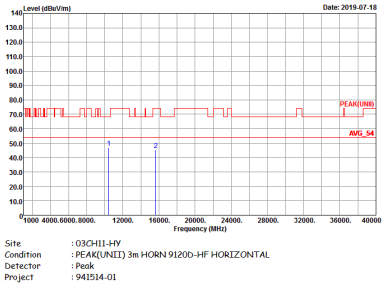
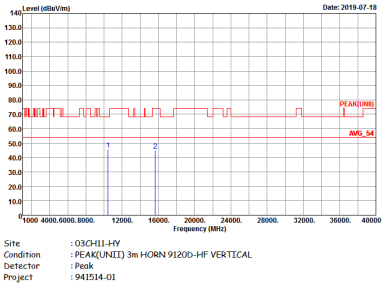
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
0	Horizontal	Vertical
Peak Avg.		

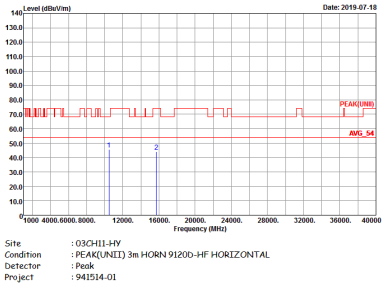
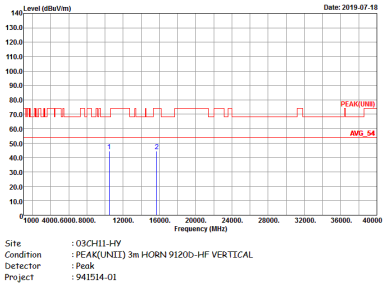
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
0	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
0	Horizontal	Vertical
Peak Avg.		

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

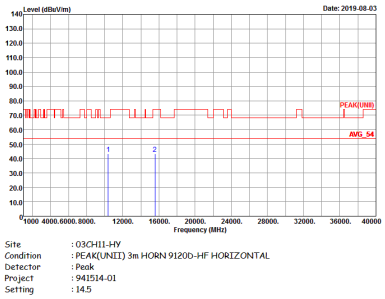
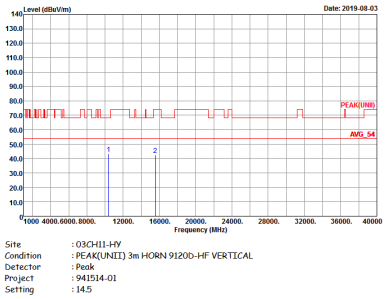
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0	Horizontal	Vertical
Peak Avg.		

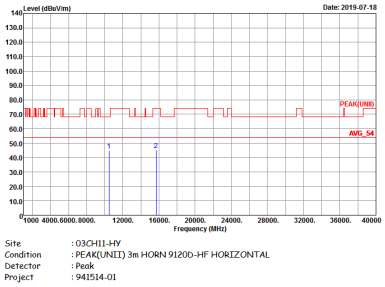
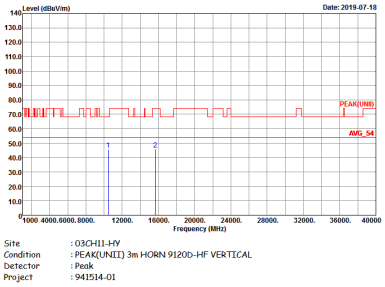
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
0	Horizontal	Vertical
Peak Avg.		

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

Band 1 5150~5250MHz

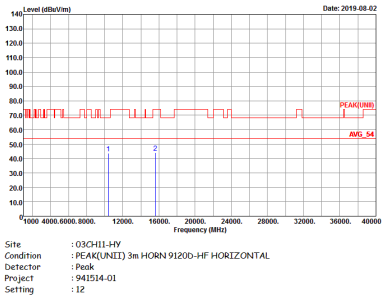
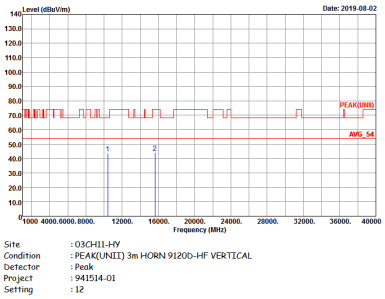
WIFI 802.11n HT40 (Harmonic @ 3m)

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
0	Horizontal	Vertical
Peak Avg.		

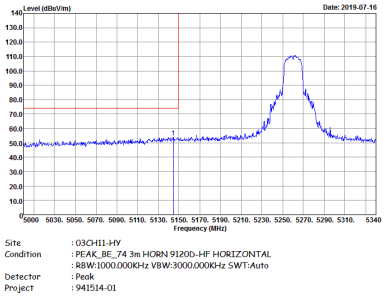
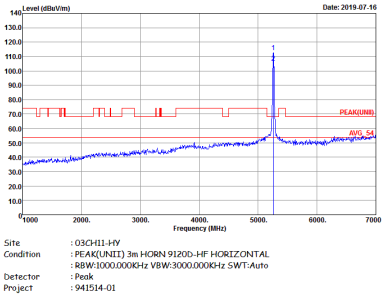
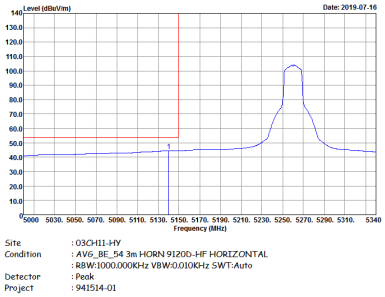
Band 1 5150~5250MHz

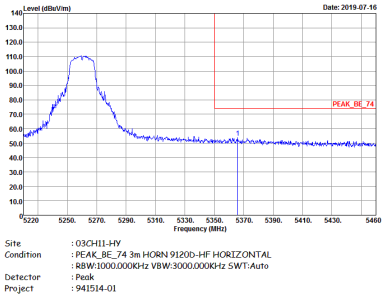
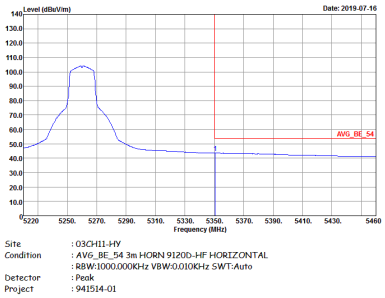
WIFI 802.11ac VHT80 (Harmonic @ 3m)

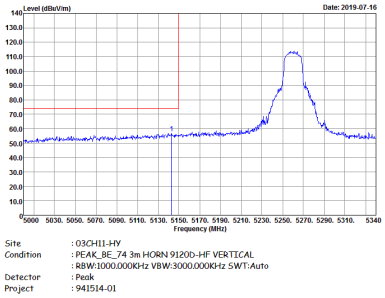
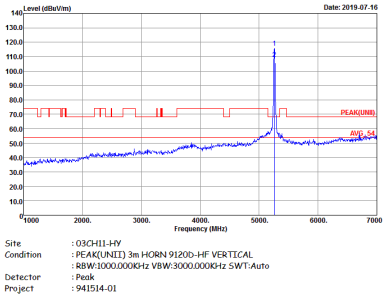
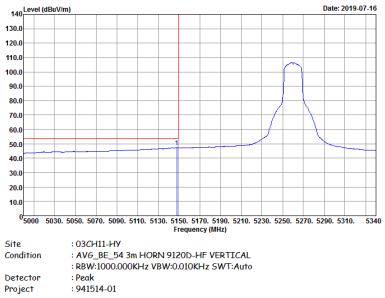
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
0	Horizontal	Vertical
Peak Avg.		

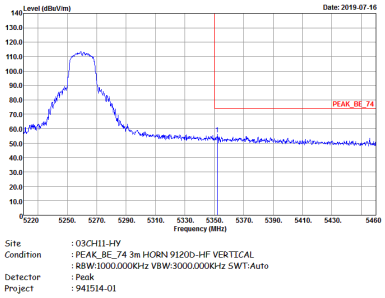
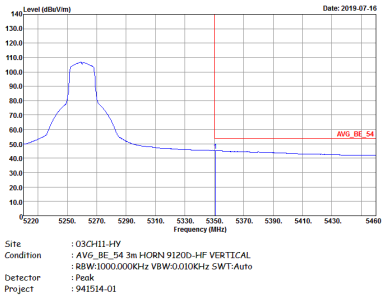
Band 2 - 5250~5350MHz

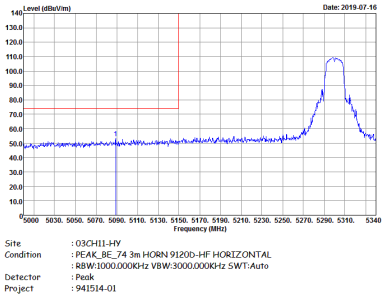
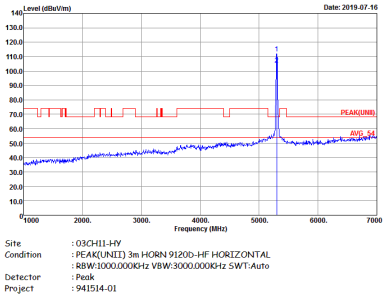
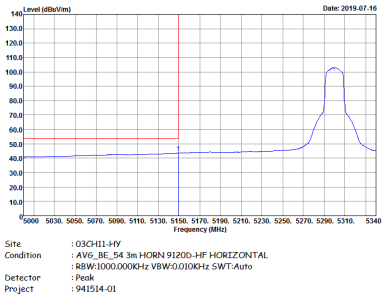
WIFI 802.11a (Band Edge @ 3m)

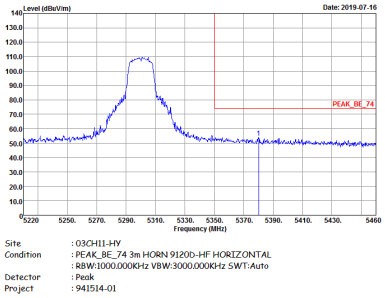
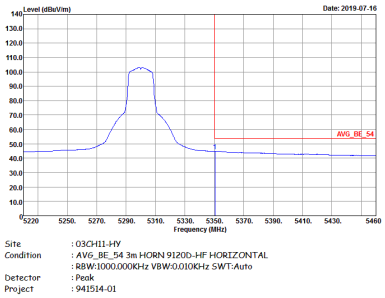
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

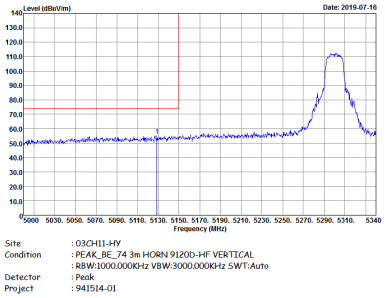
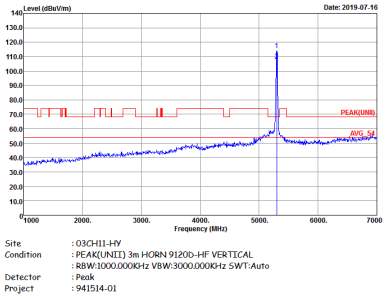
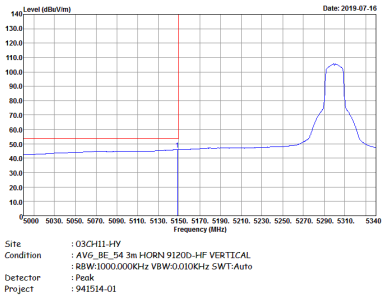
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

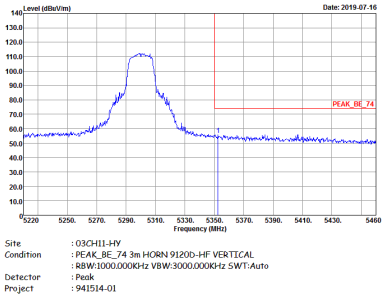
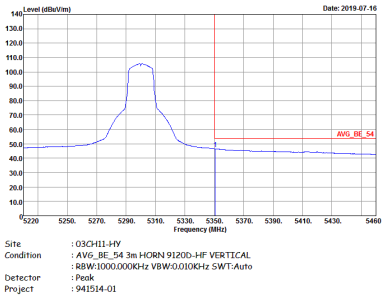
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

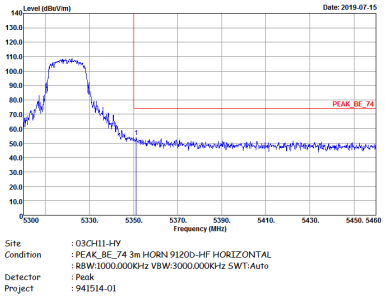
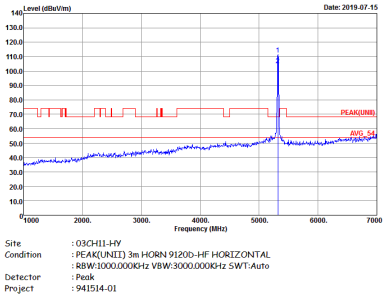
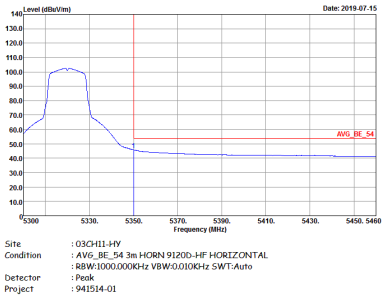
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

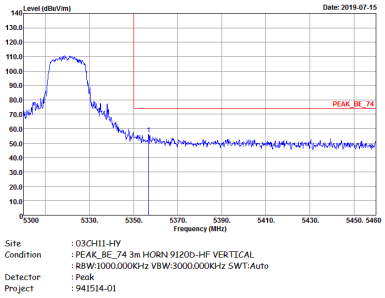
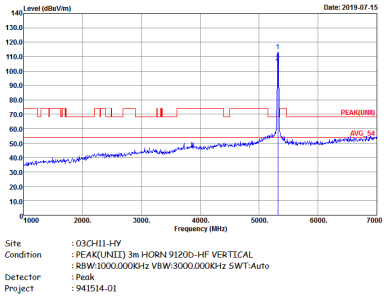
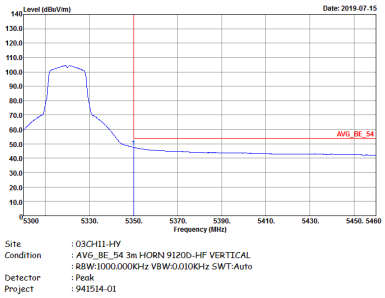
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

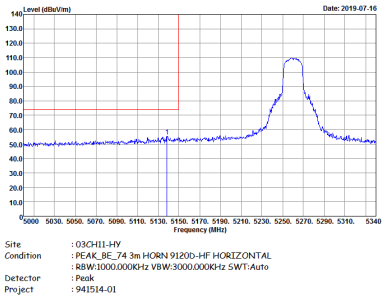
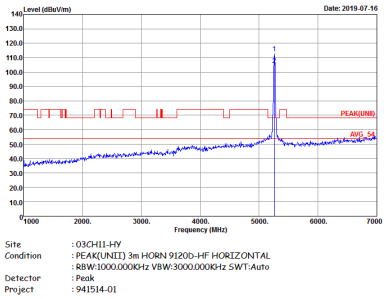
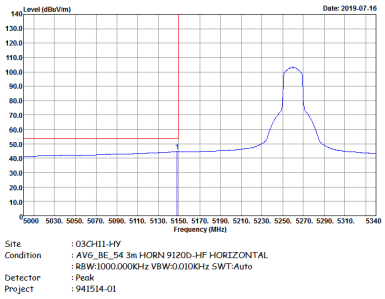
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

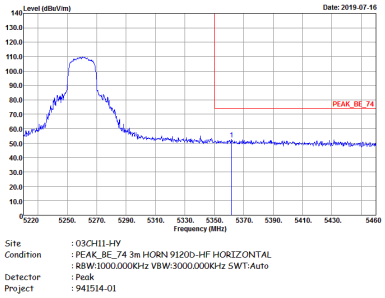
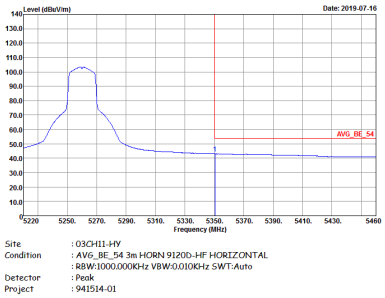
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

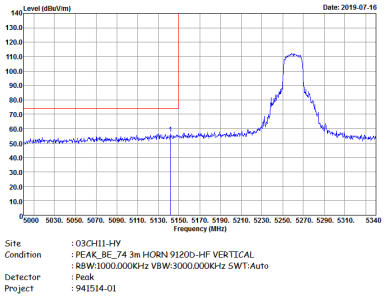
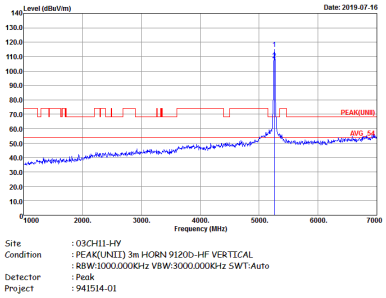
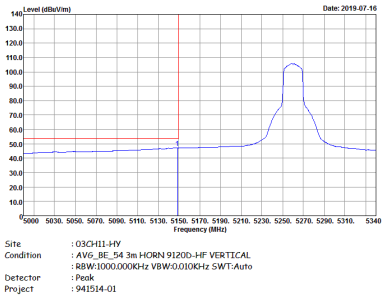
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

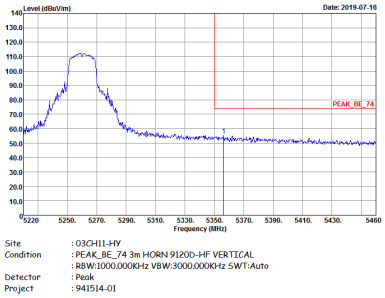
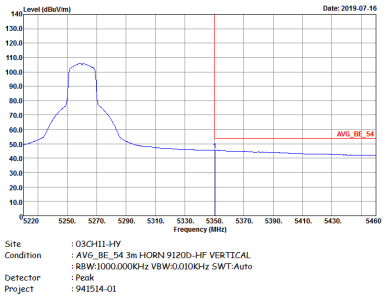
Band 2 5250~5350MHz

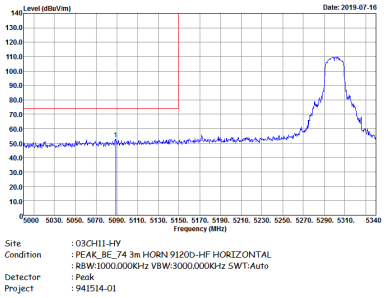
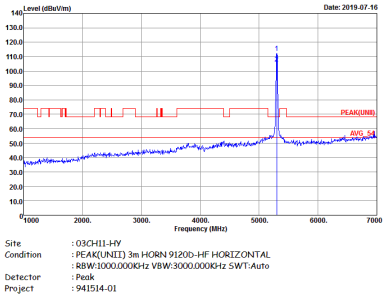
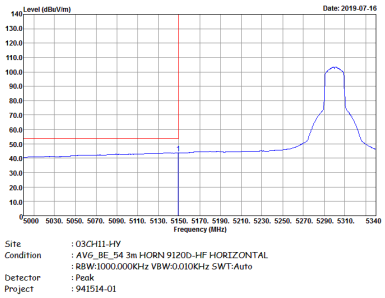
WIFI 802.11n HT20 (Band Edge @ 3m)

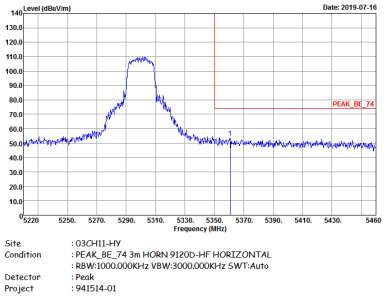
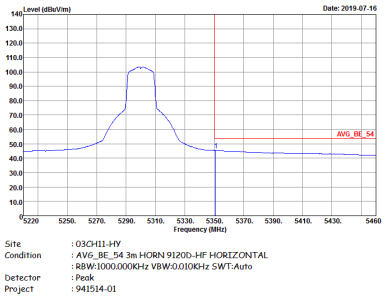
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

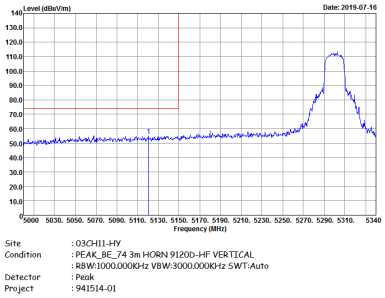
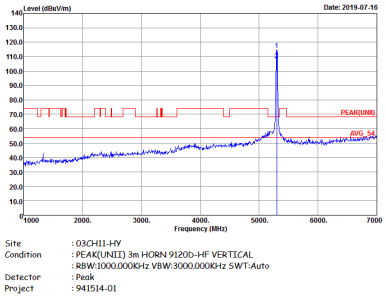
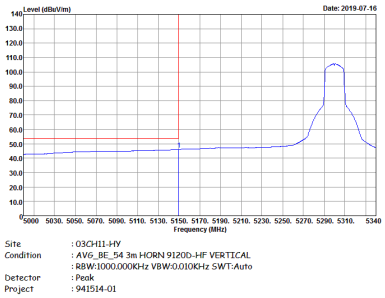
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

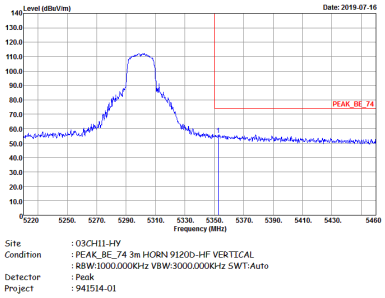
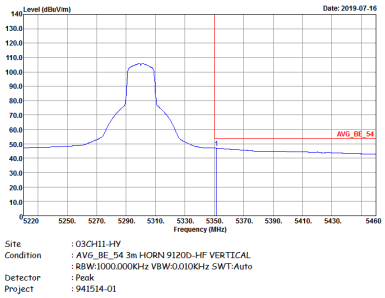
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

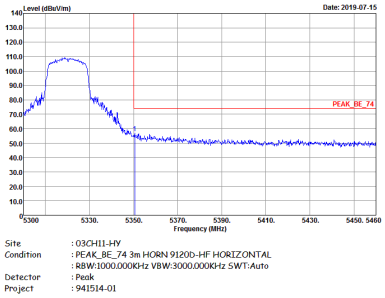
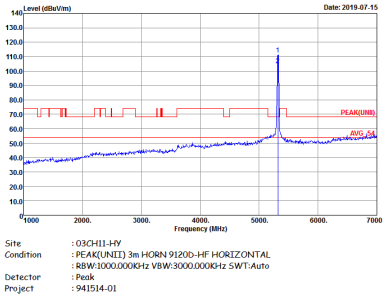
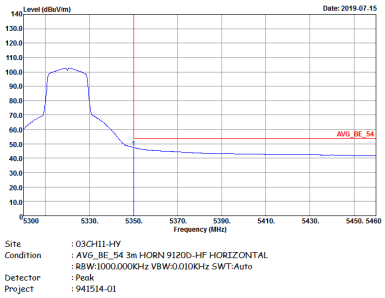
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

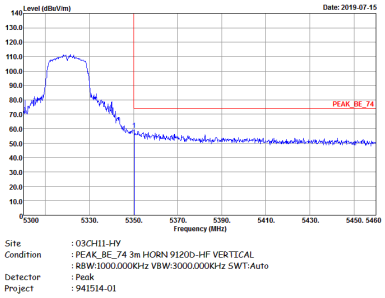
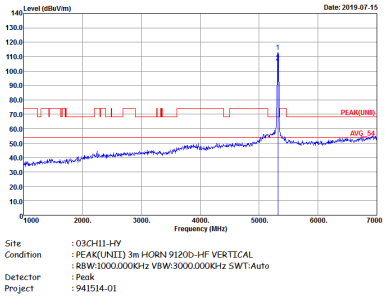
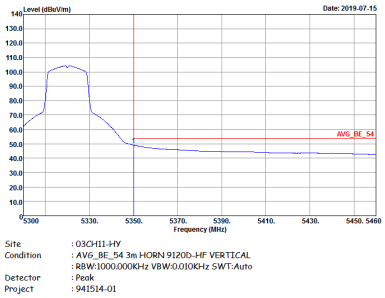
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

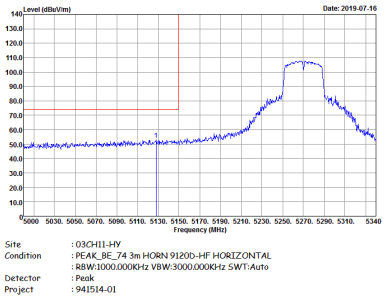
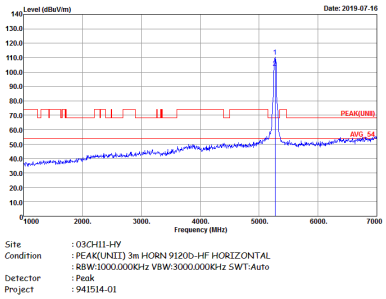
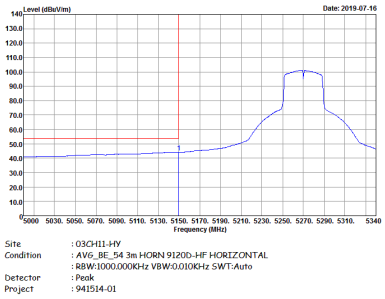
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

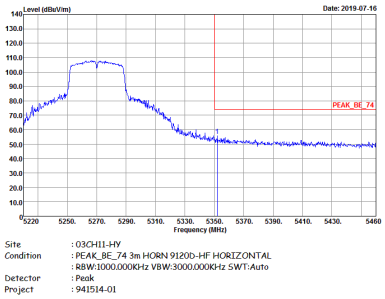
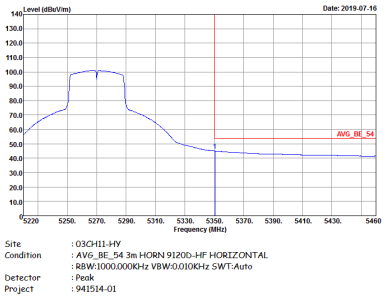
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

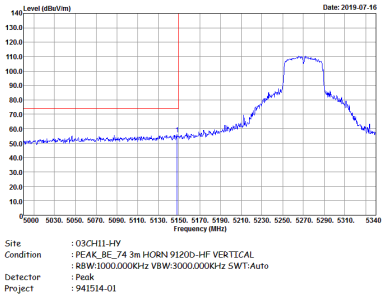
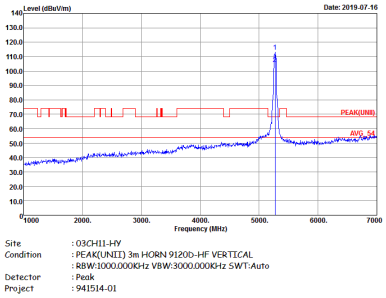
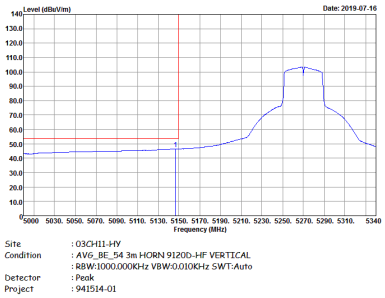
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

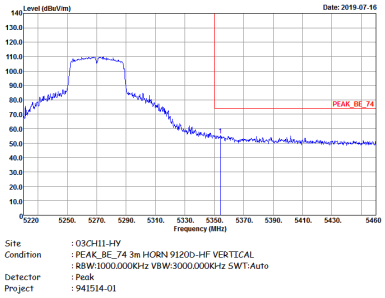
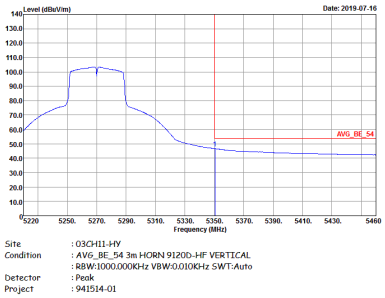
Band 2 5250~5350MHz

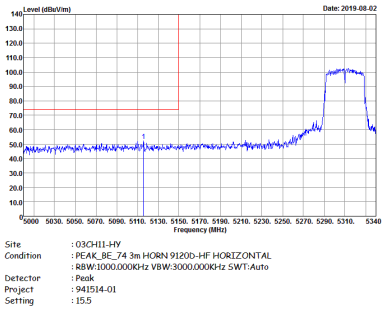
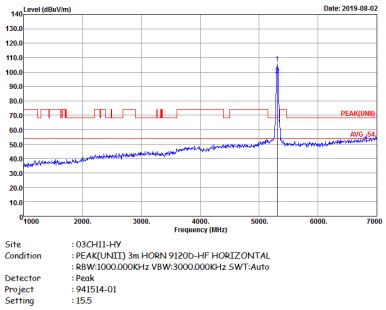
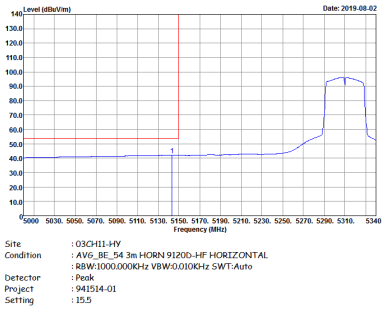
WIFI 802.11n HT40 (Band Edge @ 3m)

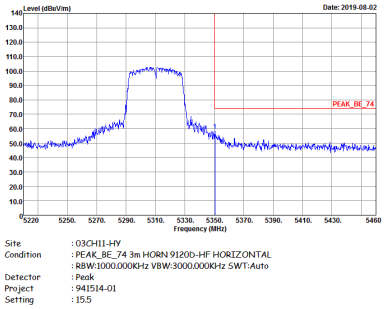
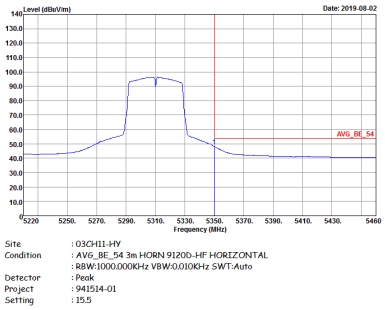
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

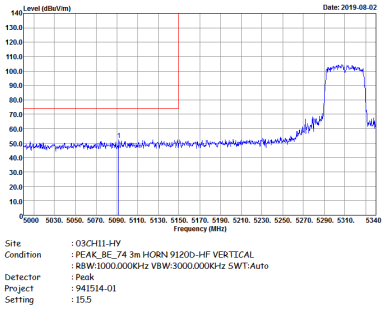
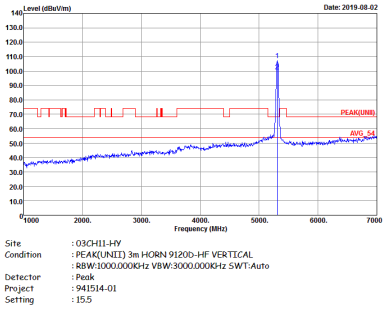
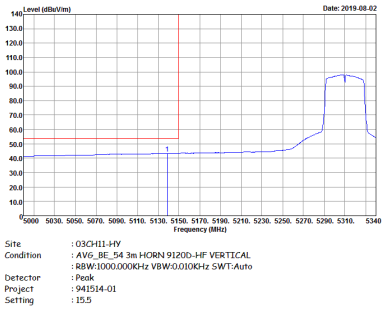
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

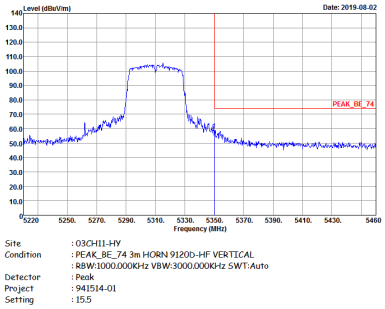
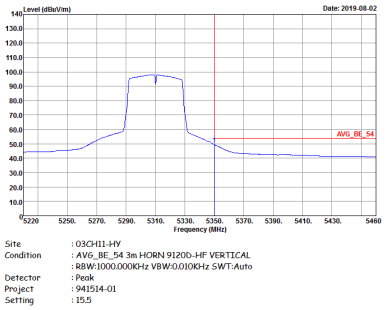
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
0	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
0	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

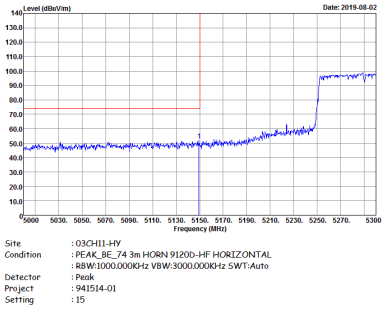
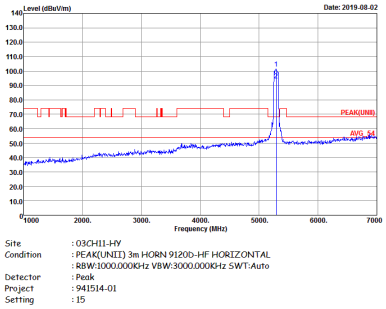
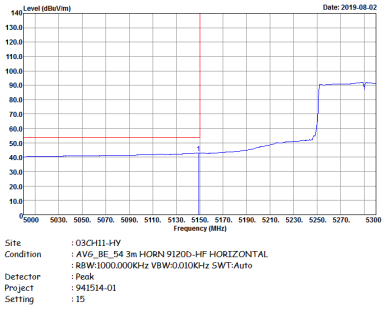
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

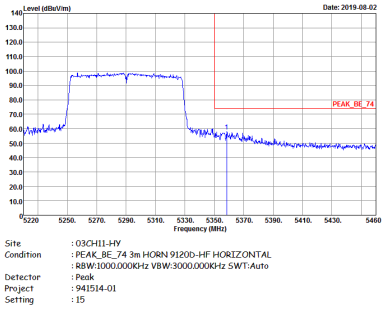
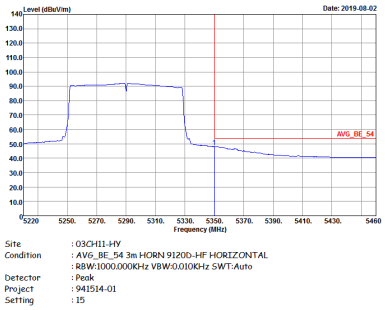
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

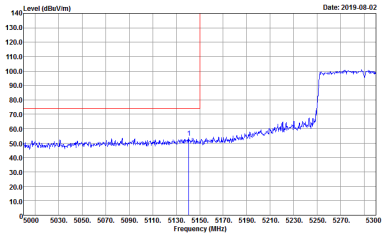
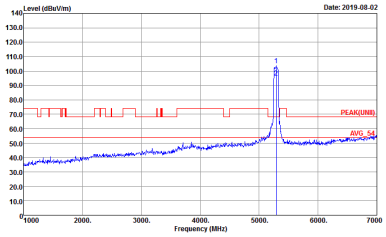
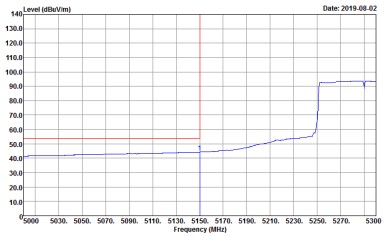
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

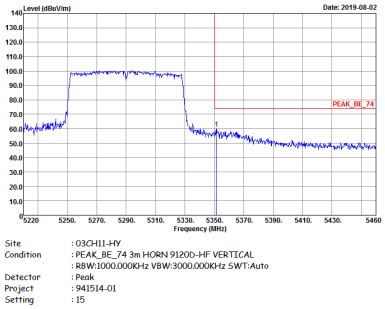
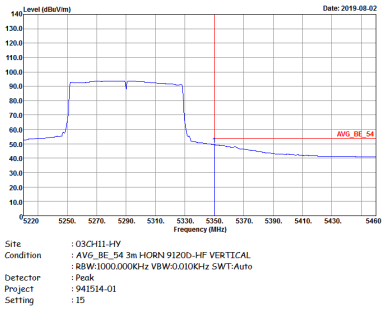
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

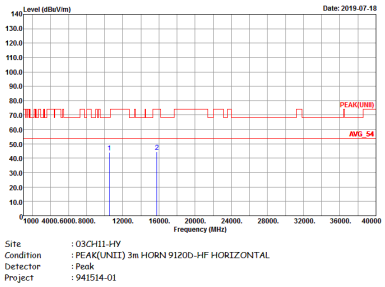
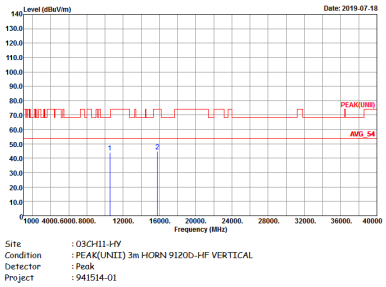
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

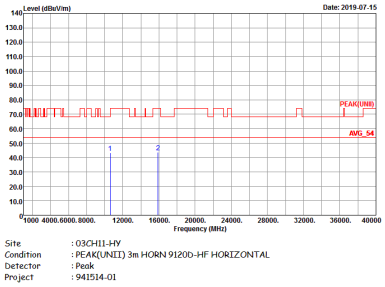
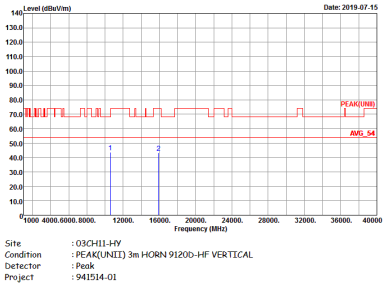
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 15	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 15
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 15	Left blank

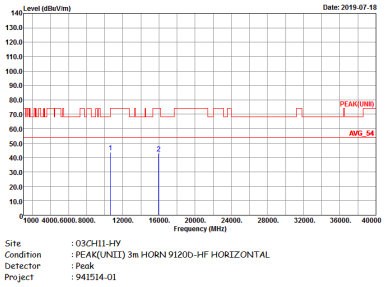
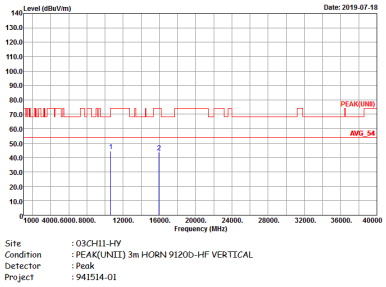
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

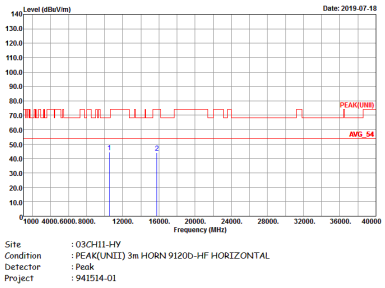
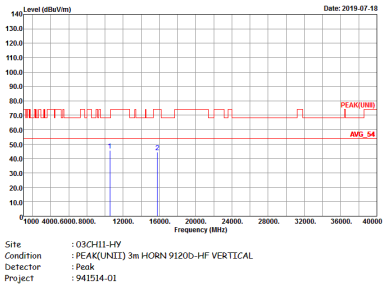
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
0	Horizontal	Vertical
Peak Avg.		

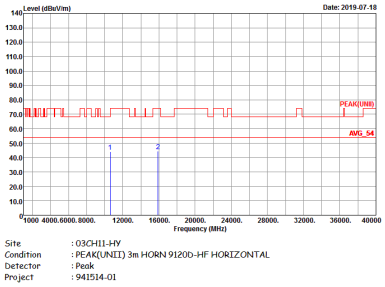
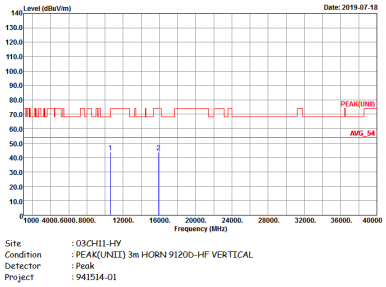
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
0	Horizontal	Vertical
Peak Avg.		

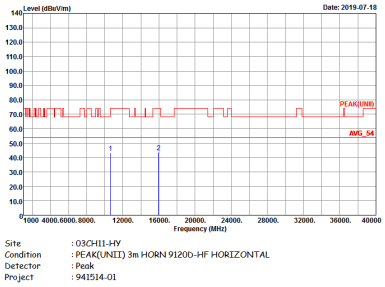
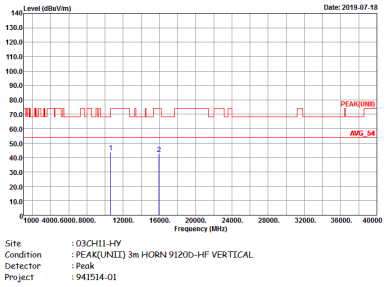
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
0	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

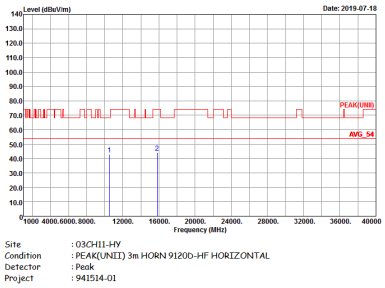
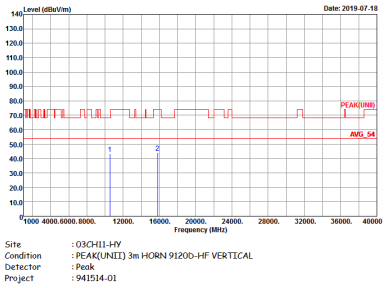
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
0	Horizontal	Vertical
Peak Avg.		

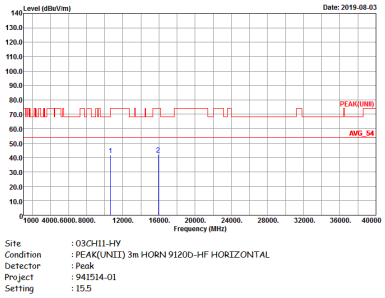
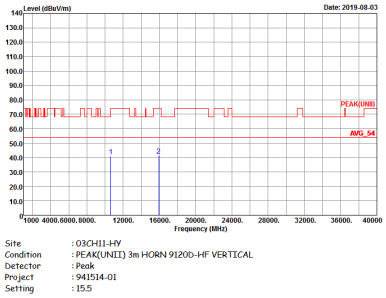
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
0	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

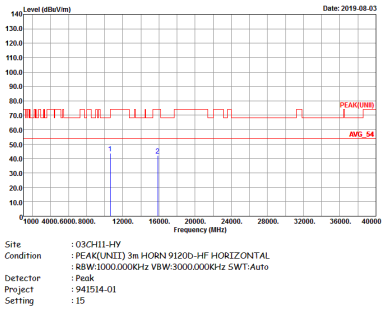
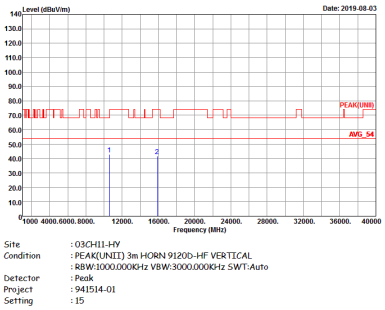
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
0	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
0	Horizontal	Vertical
Peak Avg.		

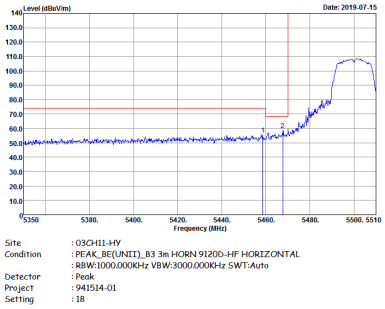
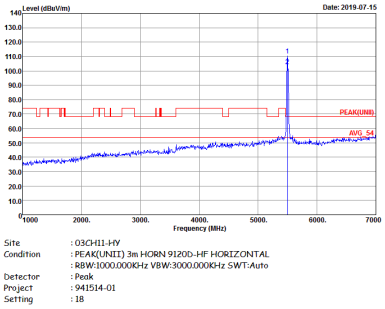
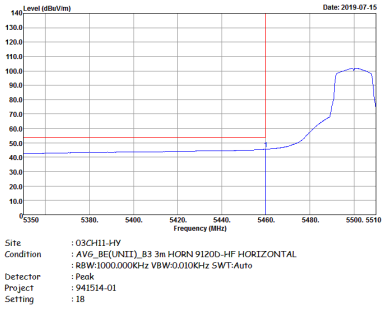
Band 2 5250~5350MHz

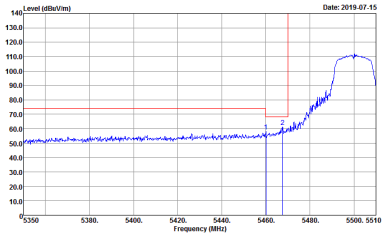
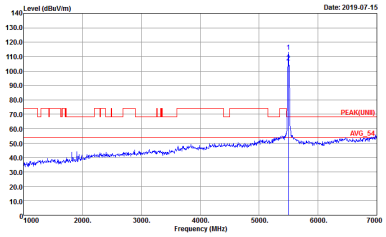
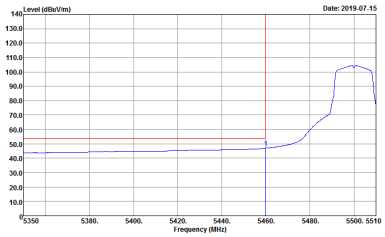
WIFI 802.11ac VHT80 (Harmonic @ 3m)

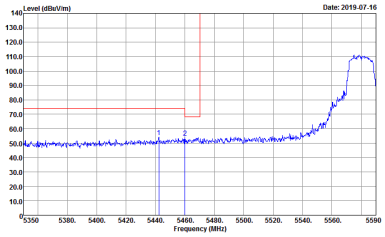
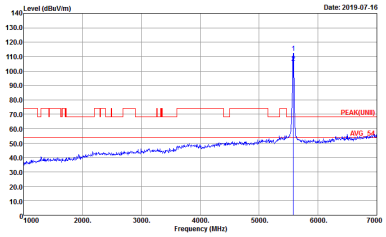
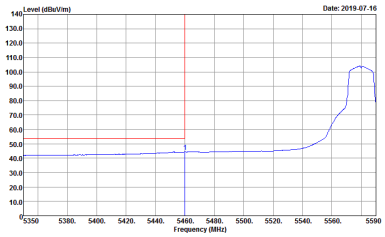
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
0	Horizontal	Vertical
Peak Avg.		

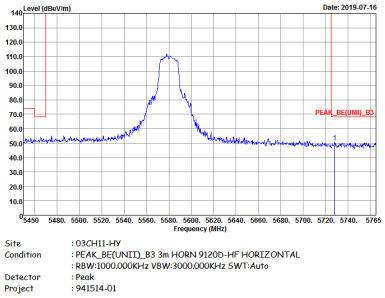
Band 3 - 5470~5725MHz

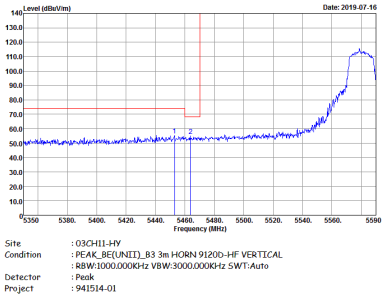
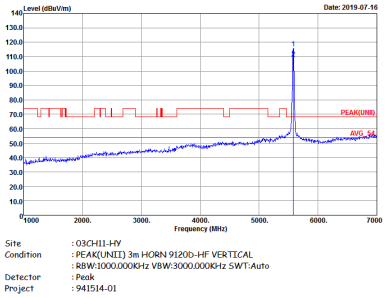
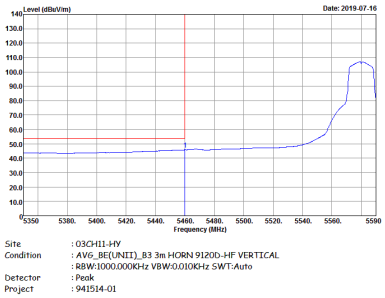
WIFI 802.11a (Band Edge @ 3m)

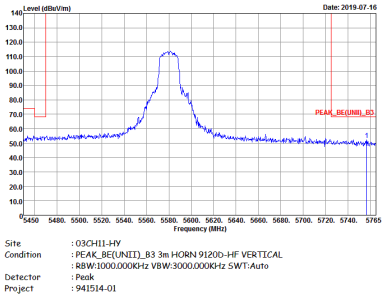
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

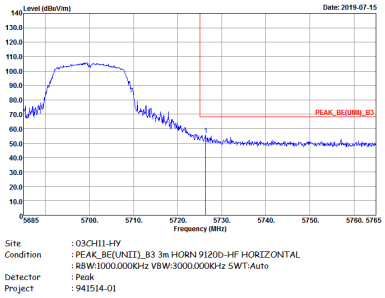
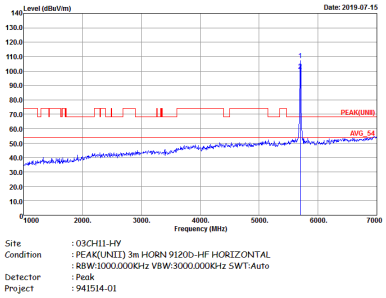
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 18	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 18	Left blank

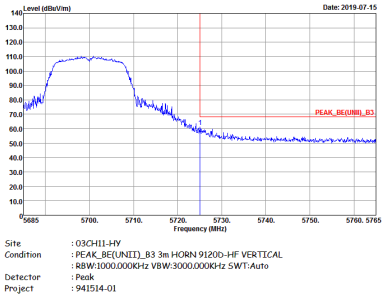
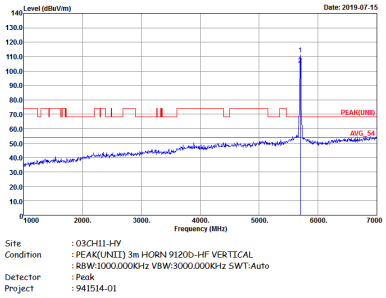
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
0	Horizontal	Fundamental
Peak		Left blank

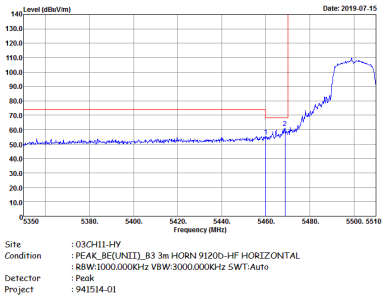
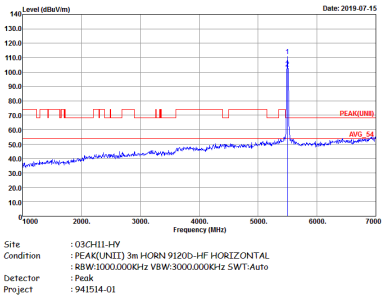
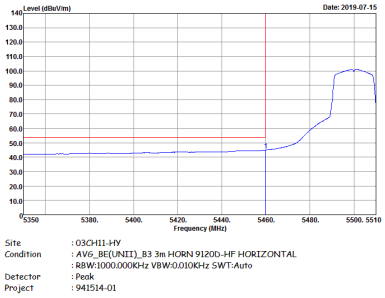
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

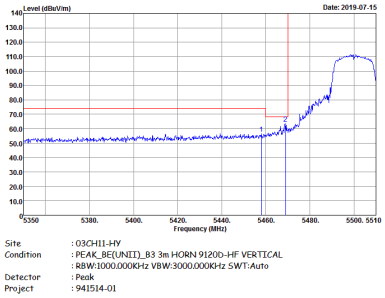
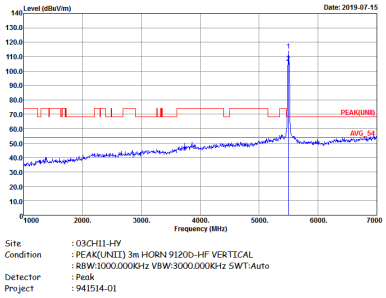
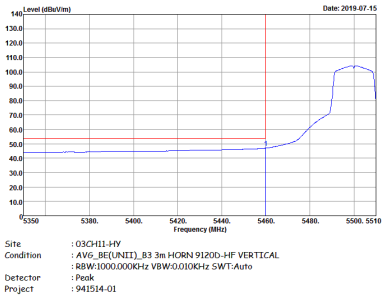
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
0	Vertical	Fundamental
Peak		Left blank

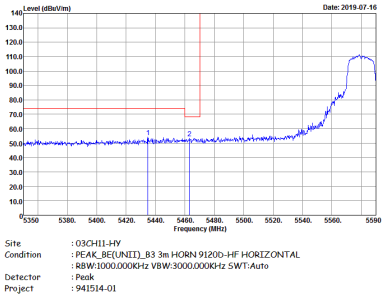
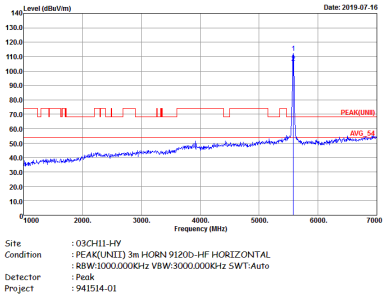
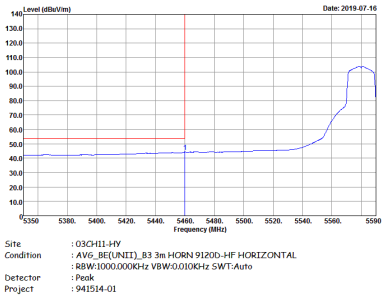
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
0	Horizontal	Fundamental
Peak		

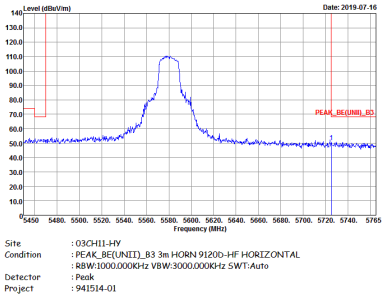
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
0	Vertical	Fundamental
Peak		

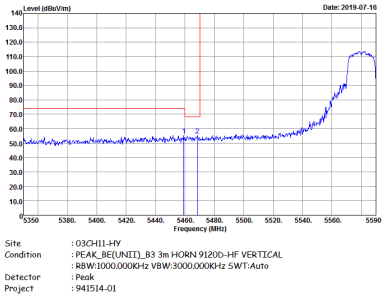
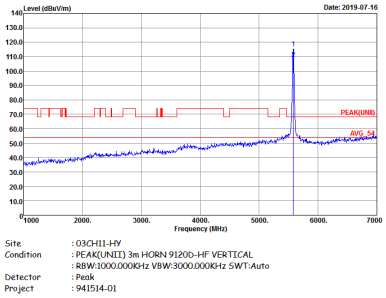
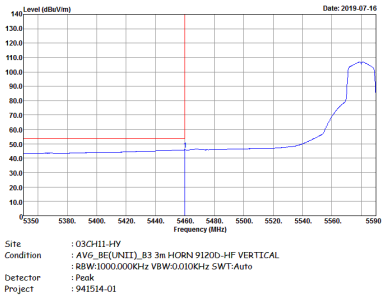
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

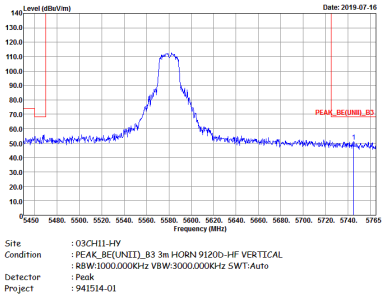
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

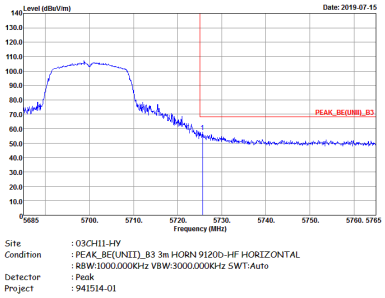
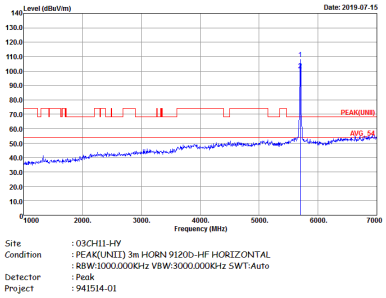
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

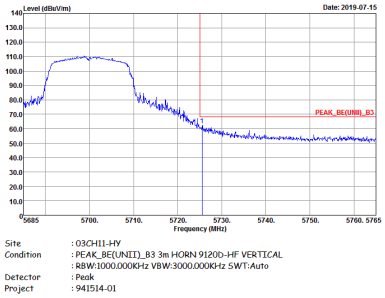
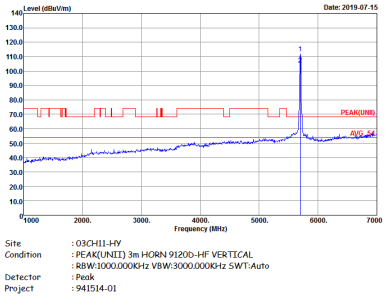
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
0	Horizontal	Fundamental
Peak		Left blank

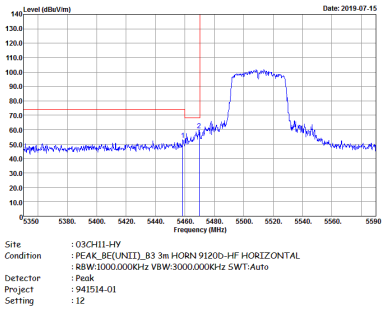
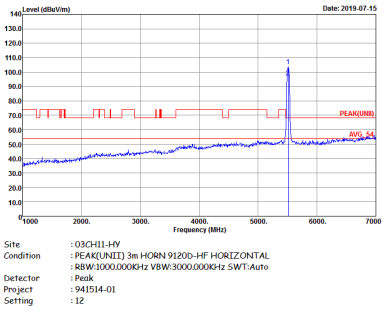
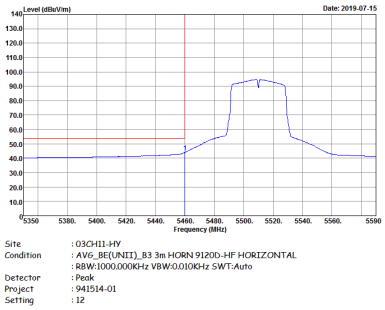
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

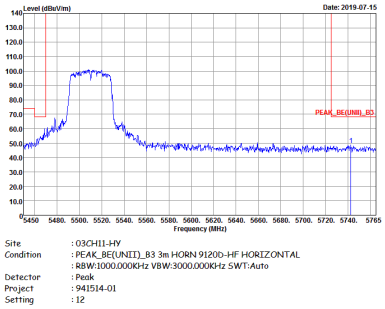
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
0	Vertical	Fundamental
Peak		Left blank

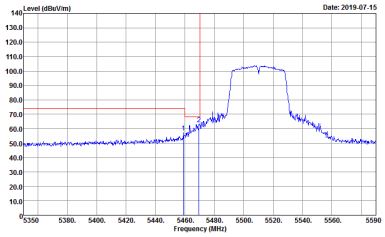
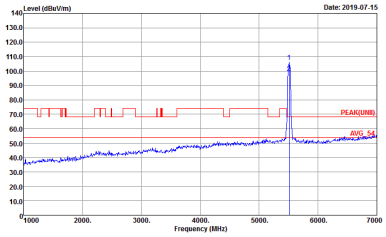
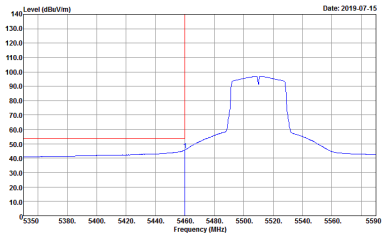
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
0	Horizontal	Fundamental
Peak		

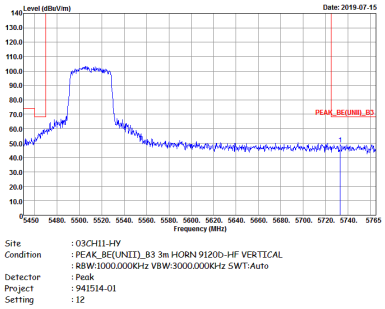
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
0	Vertical	Fundamental
Peak.		

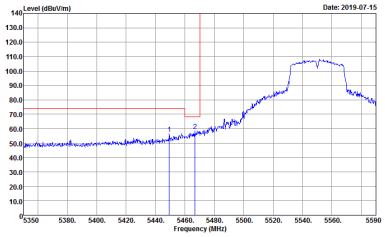
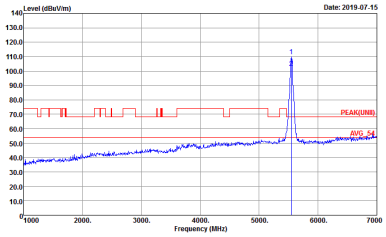
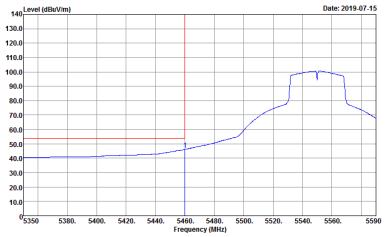
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

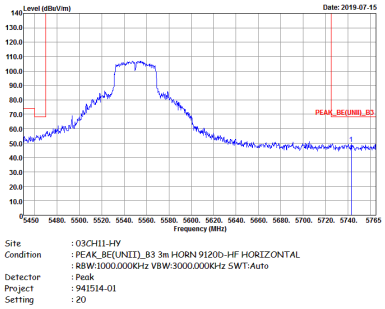
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

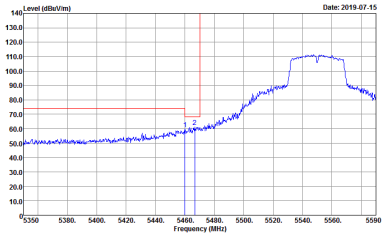
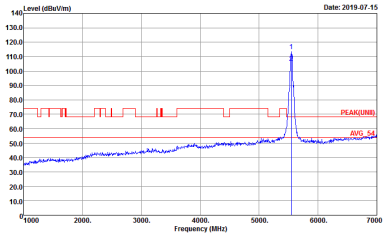
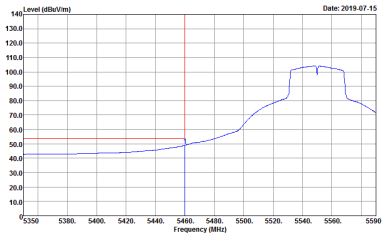
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 12	Left blank

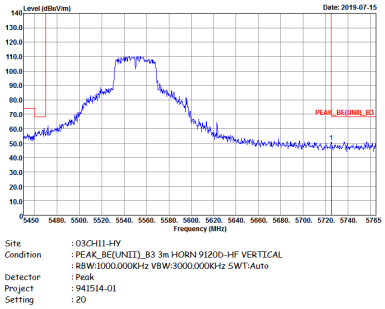
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 12	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 12	Left blank

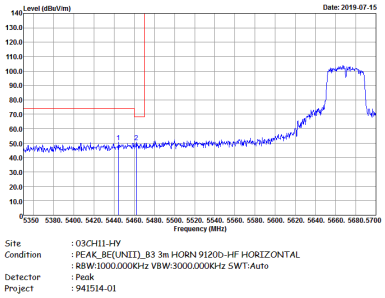
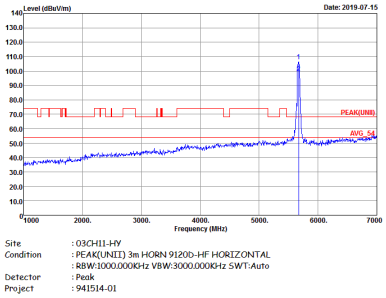
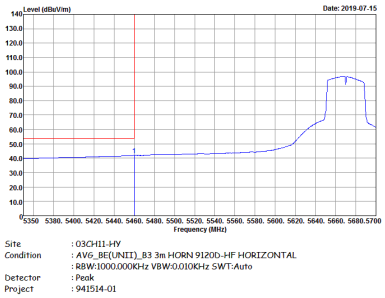
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
0	Vertical	Fundamental
Peak		Left blank

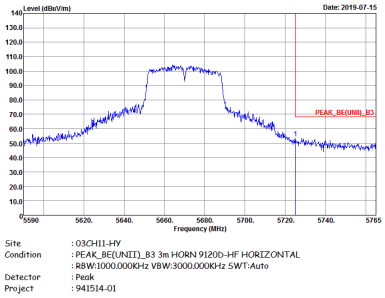
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20	Left blank

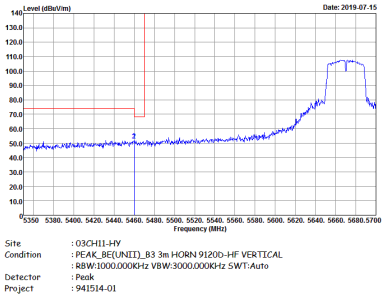
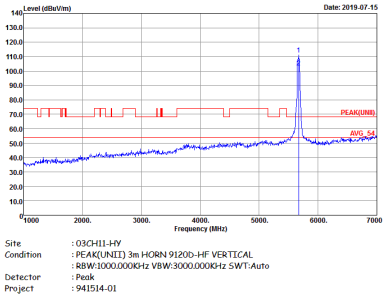
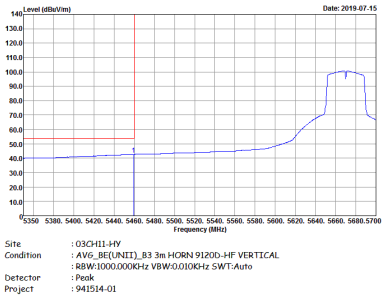
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
0	Horizontal	Fundamental
Peak		Left blank

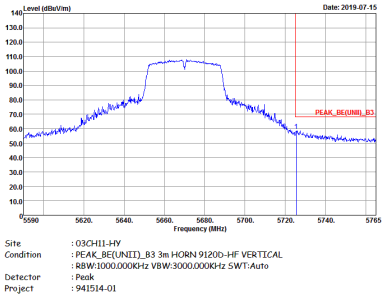
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 20	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
0	Vertical	Fundamental
Peak		Left blank

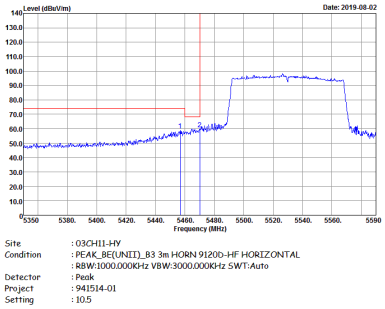
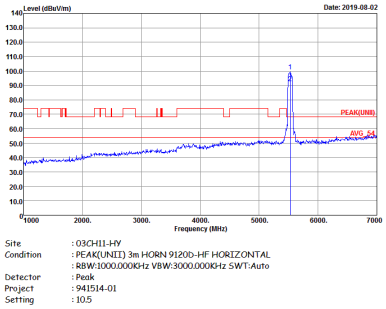
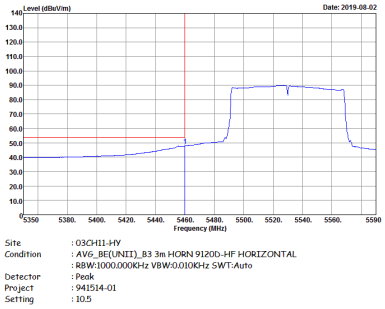
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

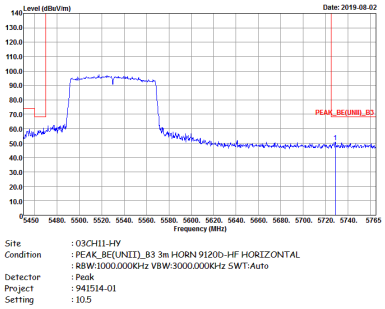
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
0	Horizontal	Fundamental
Peak		Left blank

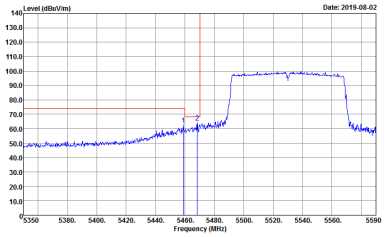
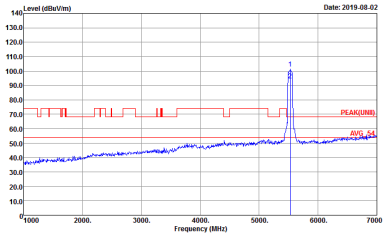
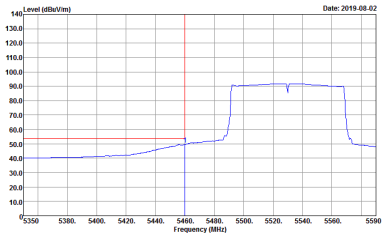
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

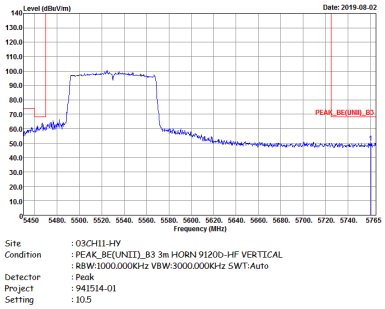
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
0	Vertical	Fundamental
Peak		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
0	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 10.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 10.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 941514-01 Setting : 10.5	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
0	Vertical	Fundamental
Peak		Left blank