FCC RADIO TEST REPORT

FCC ID	:	**ACJFZA3A**
Equipment	:	**Tablet Computer**
Brand Name	:	**Panasonic**
Model Name	:	**FZ-A3**
Marketing Name	:	**FZ-A3**
Applicant	:	**Panasonic Corporation of North America Two Riverfront Plaza, 9th Floor, Newark, NJ 07102-5490**
Manufacturer	:	**Panasonic Mobile Communications Co., Ltd. 600 Saedo-cho, Tsuzuki-ku, Yokohama City 224-8539, Japan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Oct. 17, 2019 and testing was started from Nov. 27, 2019 and completed on Dec. 31, 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.)

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History of this test report

Report No.	Version	Description	Issued Date
FR992410-01E	01	Initial issue of report	Jan. 10, 2020
FR992410-01E	02	1. Revise Connection Diagram of Test System 2. Add description of the worst case setup configs in section 2.2.	Jan. 16, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.23 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 14.30 dB at 0.160 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

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

Reviewed by: Wii Chang
Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WLAN: <Ant. 0> Monopole Antenna <Ant. 1> Monopole Antenna Bluetooth: Monopole Antenna GNSS: Monopole Antenna NFC: Loop Antenna

1.2 Modification of EUT

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

1.3 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

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

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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

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

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

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.

Single Mode

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

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Battery 1 + Earphone + AC Adapter + Camera (Front) + NFC On + USB 2.0 Data Link with HDD (HDD to SD) + Internal Antenna + SD Card + Stylus Pen

Remark:

1. For radiated test cases, the tests were performed with Battery 1.
2. For radiated test cases, because Ant.0 has the highest RF output power at preliminary test, and no other significantly frequencies found in conducted spurious emission.
3. For radiated test cases, pre-scanned with 3 setup configs (EUT with Scanner backcover, EUT with USB backcover and EUT without backcover), the worse cases (EUT without backcover) was recorded in this report.

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

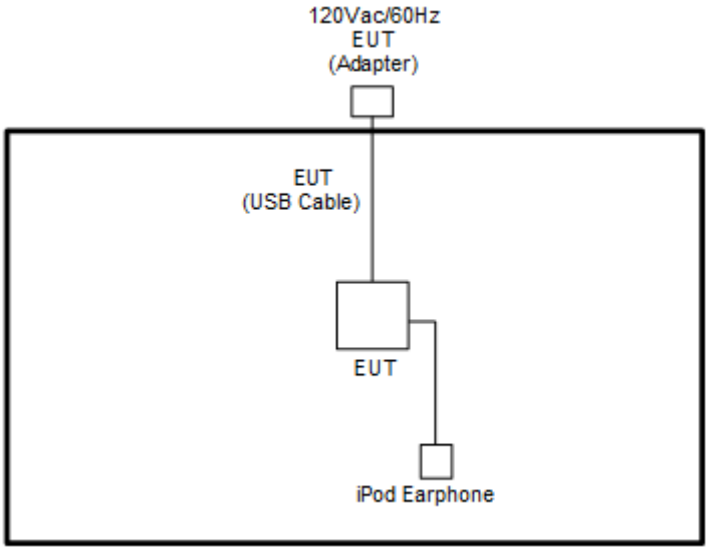
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

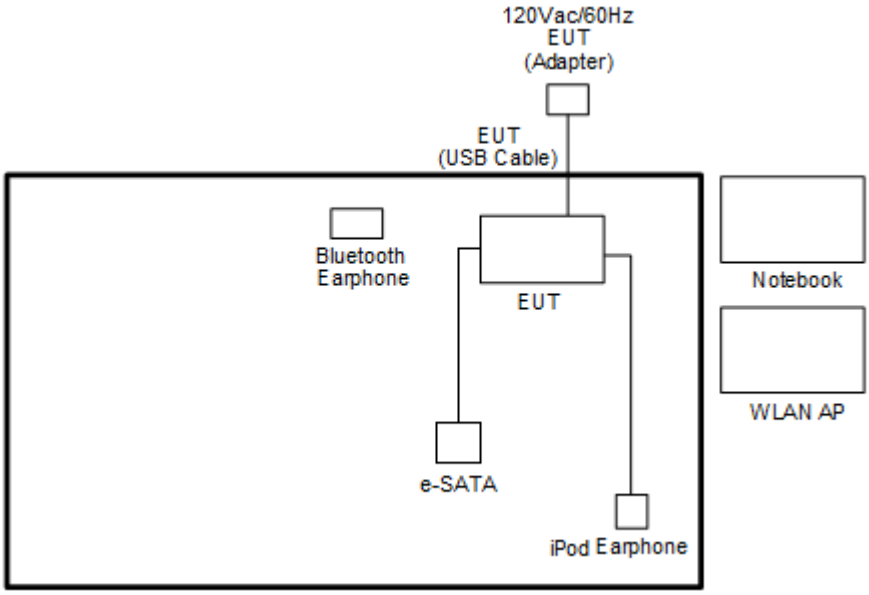
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	e-SATA	dataTale	TQ-M12H	FCC DoC	Shielded, 0.5m	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT v3.0-00271” 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

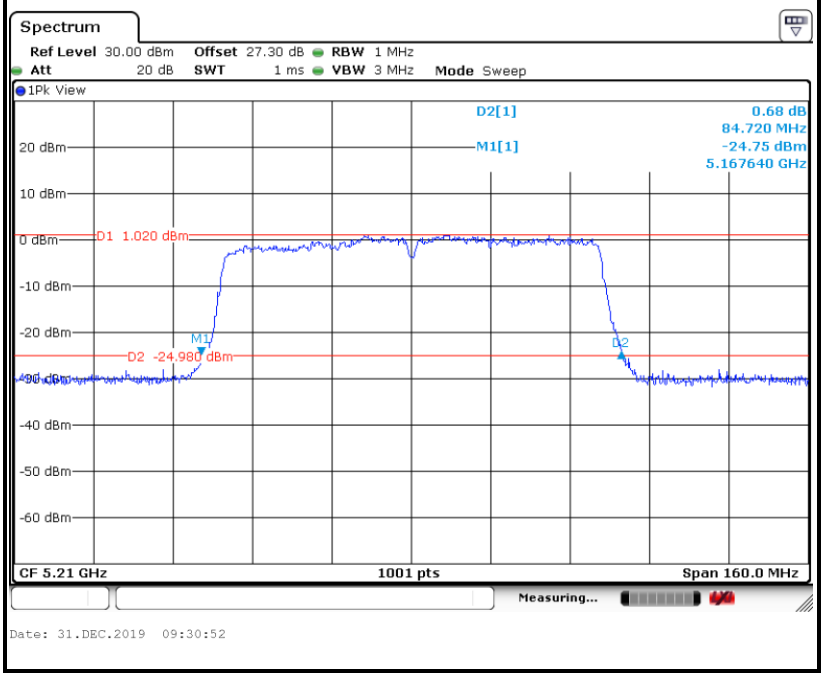
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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

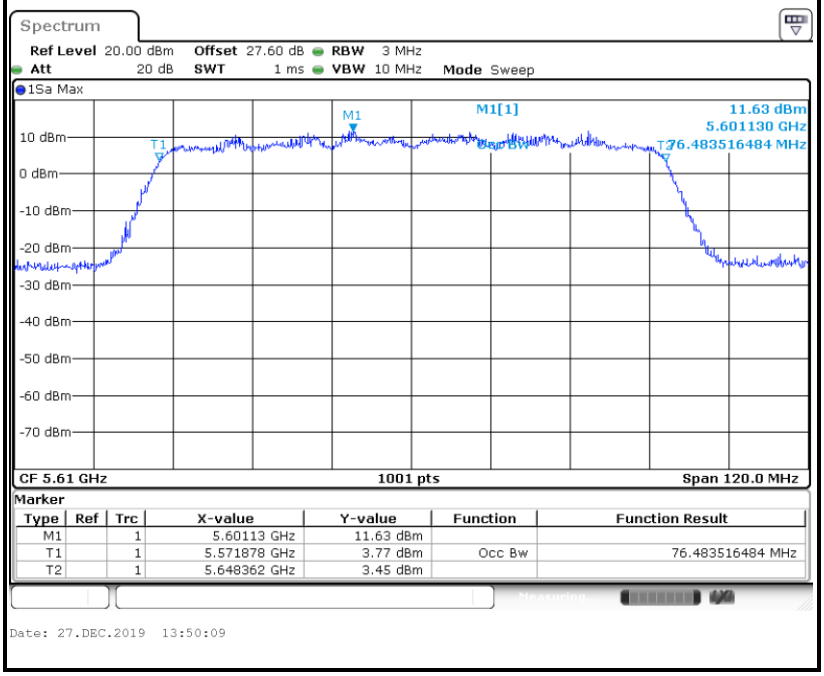
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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

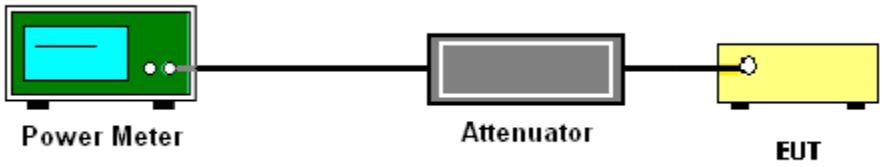
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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):

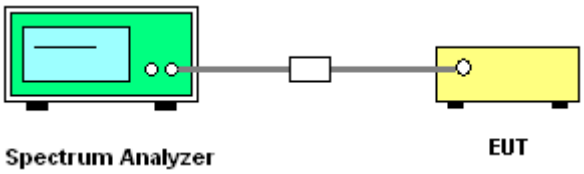
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

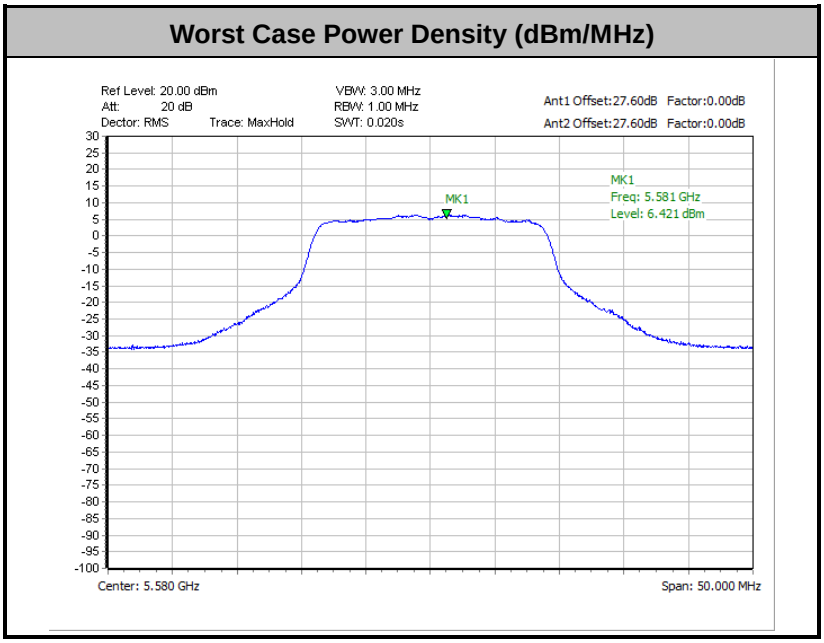
3.3.4 Test Setup



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) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

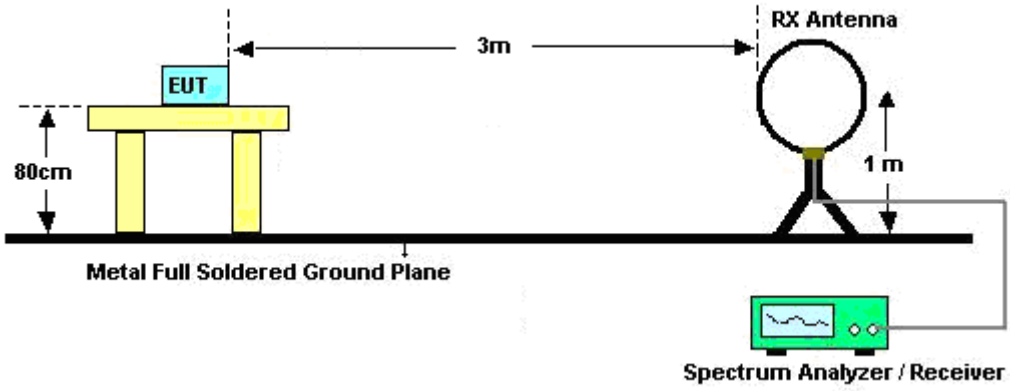
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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.

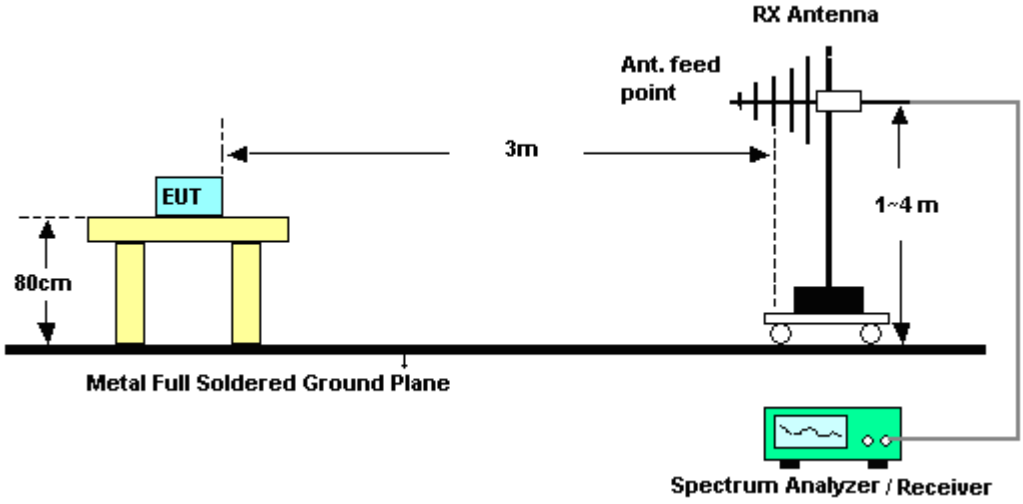
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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

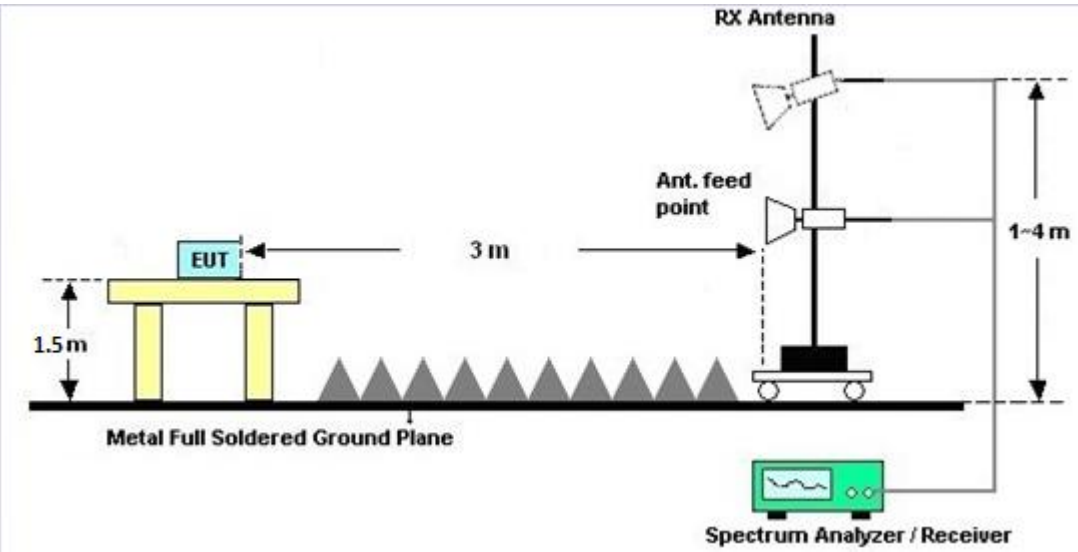
For radiated emissions below 30MHz



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.

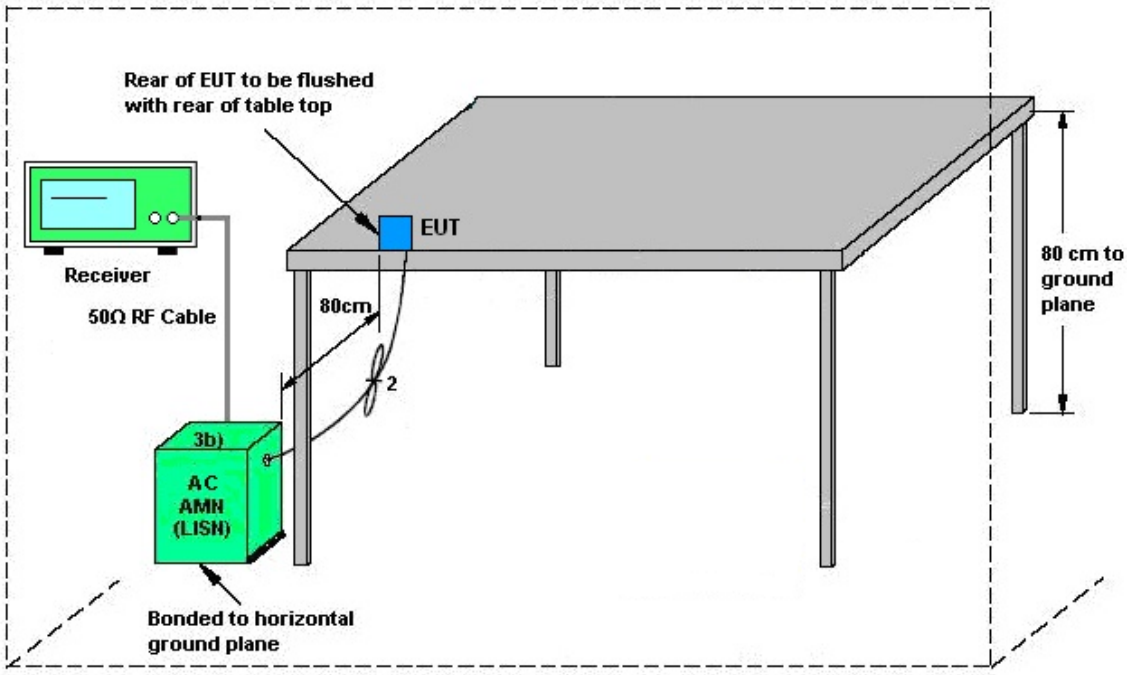
3.5.2 Measuring Instruments

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

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 0 (dBi)	Ant. 1 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	2.00	2.00	2.00	5.01	0.00	0.00
Band II	2.00	2.00	2.00	5.01	0.00	0.00
Band III	2.00	2.00	2.00	5.01	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Nov. 27, 2019~ Dec. 04, 2019	Dec. 05, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Nov. 27, 2019~ Dec. 04, 2019	Dec. 02, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Nov. 27, 2019~ Dec. 04, 2019	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	Nov. 27, 2019~ Dec. 04, 2019	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Nov. 27, 2019~ Dec. 04, 2019	Jan. 06, 2020	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	Nov. 27, 2019~ Dec. 04, 2019	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 28, 2019	Nov. 27, 2019~ Dec. 04, 2019	Oct. 27, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 27, 2019~ Dec. 04, 2019	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 27, 2019~ Dec. 04, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 27, 2019~ Dec. 04, 2019	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	1GHz~18GHz	Aug. 01, 2019	Nov. 27, 2019~ Dec. 04, 2019	Jul. 31, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	May 14, 2019	Nov. 27, 2019~ Dec. 04, 2019	May 13, 2020	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY55420170	20MHz~8.4GHz	Mar. 08, 2019	Nov. 27, 2019~ Dec. 04, 2019	Mar. 07, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Nov. 27, 2019~ Dec. 04, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 13, 2019	Nov. 27, 2019~ Dec. 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 15, 2019	Nov. 27, 2019~ Dec. 04, 2019	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass	Sep. 16, 2019	Nov. 27, 2019~ Dec. 04, 2019	Sep. 15, 2020	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Dec. 26, 2019~ Dec. 31, 2019	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO35	10MHz~6GHz	Jan. 15, 2019	Dec. 26, 2019~ Dec. 31, 2019	Jan. 14, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Dec. 26, 2019~ Dec. 31, 2019	Jul. 14, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Aug. 14, 2019	Dec. 26, 2019~ Dec. 31, 2019	Aug. 13, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Dec. 26, 2019~ Dec. 31, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 05, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Dec. 05, 2019	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Dec. 05, 2019	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Dec. 05, 2019	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 05, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Dec. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Dec. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0**

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))	**5.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.12**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	KenWu	Temperature:	21~25	°C
Test Date:	2019/12/26~12/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna														
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	16.73	24.78	25.22	-		22.24	22.24		
11a	6Mbps	1	44	5220	16.73	16.78	25.03	24.88	-		22.24	22.25		
11a	6Mbps	1	48	5240	16.73	16.73	24.73	24.88	-		22.24	22.24		

Band I MIMO														
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		
HT20	MCS0	2	36	5180	18.03	17.93	24.98	25.12	-		22.54			
HT20	MCS0	2	44	5220	17.88	17.98	24.18	24.93	-		22.52			
HT20	MCS0	2	48	5240	17.93	17.98	24.18	25.07	-		22.54			
HT40	MCS0	2	38	5190	36.46	36.56	41.90	42.53	-		23.01			
HT40	MCS0	2	46	5230	36.56	36.56	41.90	41.99	-		23.01			
VHT80	MCS0	2	42	5210	76.24	76.12	83.92	84.72	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
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	10.70	10.60		24.00	24.00	2.00	2.00		Pass
11a	6Mbps	1	44	5220	10.40	10.30		24.00	24.00	2.00	2.00		Pass
11a	6Mbps	1	48	5240	10.50	10.40		24.00	24.00	2.00	2.00		Pass
HT20	MCS0	1	36	5180	10.60	10.60		24.00	24.00	2.00	2.00		Pass
HT20	MCS0	1	44	5220	10.50	10.30		24.00	24.00	2.00	2.00		Pass
HT20	MCS0	1	48	5240	10.50	10.60		24.00	24.00	2.00	2.00		Pass
HT40	MCS0	1	38	5190	10.80	10.60		24.00	24.00	2.00	2.00		Pass
HT40	MCS0	1	46	5230	10.80	10.60		24.00	24.00	2.00	2.00		Pass
VHT20	MCS0	1	36	5180	10.50	10.50		24.00	24.00	2.00	2.00		Pass
VHT20	MCS0	1	44	5220	10.40	10.20		24.00	24.00	2.00	2.00		Pass
VHT20	MCS0	1	48	5240	10.40	10.50		24.00	24.00	2.00	2.00		Pass
VHT40	MCS0	1	38	5190	10.70	10.50		24.00	24.00	2.00	2.00		Pass
VHT40	MCS0	1	46	5230	10.70	10.50		24.00	24.00	2.00	2.00		Pass
VHT80	MCS0	1	42	5210	9.70	9.80		24.00	24.00	2.00	2.00		Pass

FCC Band I MIMO													
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		
HT20	MCS0	2	36	5180	10.70	10.90	13.81	24.00		2.00			Pass
HT20	MCS0	2	44	5220	10.80	10.90	13.86	24.00		2.00			Pass
HT20	MCS0	2	48	5240	10.60	10.90	13.76	24.00		2.00			Pass
HT40	MCS0	2	38	5190	10.90	10.70	13.81	24.00		2.00			Pass
HT40	MCS0	2	46	5230	10.90	10.70	13.81	24.00		2.00			Pass
VHT20	MCS0	2	36	5180	10.60	10.80	13.71	24.00		2.00			Pass
VHT20	MCS0	2	44	5220	10.70	10.80	13.76	24.00		2.00			Pass
VHT20	MCS0	2	48	5240	10.50	10.80	13.66	24.00		2.00			Pass
VHT40	MCS0	2	38	5190	10.80	10.60	13.71	24.00		2.00			Pass
VHT40	MCS0	2	46	5230	10.80	10.60	13.71	24.00		2.00			Pass
VHT80	MCS0	2	42	5210	9.80	9.90	12.86	24.00		2.00			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	36	5180	1.21	1.59		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	44	5220	1.04	1.10		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	48	5240	1.29	1.03		11.00	11.00	2.00	2.00		Pass

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HT20	MCS0	2	36	5180			4.26	11.00		5.01			Pass
HT20	MCS0	2	44	5220			4.27	11.00		5.01			Pass
HT20	MCS0	2	48	5240			4.17	11.00		5.01			Pass
HT40	MCS0	2	38	5190			1.27	11.00		5.01			Pass
HT40	MCS0	2	46	5230			1.08	11.00		5.01			Pass
VHT80	MCS0	2	42	5210			-3.12	11.00		5.01			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
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	16.78	16.78	24.83	24.53	23.25	23.25	29.25	29.25	23.98	23.98	
11a	6Mbps	1	60	5300	16.78	16.73	24.73	24.63	23.25	23.24	29.25	29.24	23.98	23.98	
11a	6Mbps	1	64	5320	16.78	16.78	25.27	25.03	23.25	23.25	29.25	29.25	23.98	23.98	

Band II MIMO															
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	
HT20	MCS0	2	52	5260	18.03	17.98	24.83	25.22	23.55		29.55		23.98		
HT20	MCS0	2	60	5300	18.03	17.98	24.73	24.88	23.55		29.55		23.98		
HT20	MCS0	2	64	5320	17.98	17.98	24.48	25.03	23.55		29.55		23.98		
HT40	MCS0	2	54	5270	36.56	36.56	41.72	41.90	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.66	36.76	41.99	41.99	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.24	76.24	84.72	83.03	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
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	10.50	10.30		23.98	23.98	2.00	2.00	26.99	Pass
11a	6Mbps	1	60	5300	10.40	10.30		23.98	23.98	2.00	2.00	26.99	Pass
11a	6Mbps	1	64	5320	10.60	10.50		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	52	5260	10.50	10.40		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	60	5300	10.60	10.30		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	64	5320	10.60	10.40		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	54	5270	10.90	10.70		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	62	5310	9.30	9.40		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	52	5260	10.40	10.30		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	60	5300	10.50	10.20		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	64	5320	10.50	10.30		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	54	5270	10.80	10.60		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	62	5310	9.20	9.30		23.98	23.98	2.00	2.00	26.99	Pass
VHT80	MCS0	1	58	5290	7.20	7.30		23.98	23.98	2.00	2.00	26.99	Pass

FCC Band II MIMO													
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		
HT20	MCS0	2	52	5260	10.70	10.90	13.81	23.98		2.00		26.99	Pass
HT20	MCS0	2	60	5300	10.70	11.00	13.86	23.98		2.00		26.99	Pass
HT20	MCS0	2	64	5320	10.70	11.00	13.86	23.98		2.00		26.99	Pass
HT40	MCS0	2	54	5270	11.00	10.80	13.91	23.98		2.00		26.99	Pass
HT40	MCS0	2	62	5310	9.40	9.50	12.46	23.98		2.00		26.99	Pass
VHT20	MCS0	2	52	5260	10.60	10.80	13.71	23.98		2.00		26.99	Pass
VHT20	MCS0	2	60	5300	10.60	10.90	13.76	23.98		2.00		26.99	Pass
VHT20	MCS0	2	64	5320	10.60	10.90	13.76	23.98		2.00		26.99	Pass
VHT40	MCS0	2	54	5270	10.90	10.70	13.81	23.98		2.00		26.99	Pass
VHT40	MCS0	2	62	5310	9.30	9.40	12.36	23.98		2.00		26.99	Pass
VHT80	MCS0	2	58	5290	7.30	7.40	10.36	23.98		2.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	52	5260	1.10	1.05		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	60	5300	1.32	1.62		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	64	5320	1.28	1.49		11.00	11.00	2.00	2.00		Pass

Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HT20	MCS0	2	52	5260			4.13	11.00		5.01			Pass
HT20	MCS0	2	60	5300			4.15	11.00		5.01			Pass
HT20	MCS0	2	64	5320			4.16	11.00		5.01			Pass
HT40	MCS0	2	54	5270			1.09	11.00		5.01			Pass
HT40	MCS0	2	62	5310			-0.41	11.00		5.01			Pass
VHT80	MCS0	2	58	5290			-4.97	11.00		5.01			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
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	16.78	24.28	25.32	23.25	23.25	29.25	29.25	23.98	23.98	----	----
11a	6Mbps	1	116	5580	16.73	16.78	24.68	25.37	23.24	23.25	29.24	29.25	23.98	23.98	----	----
11a	6Mbps	1	140	5700	16.78	16.83	24.98	25.12	23.25	23.26	29.25	29.26	23.98	23.98	----	----

Band III MIMO																
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
HT20	MCS0	2	100	5500	17.88	17.98	26.32	26.22	23.52		29.52		23.98		----	----
HT20	MCS0	2	116	5580	18.03	17.98	24.88	25.07	23.55		29.55		23.98		----	----
HT20	MCS0	2	140	5700	17.93	17.98	26.07	26.52	23.54		29.54		23.98		----	----
HT40	MCS0	2	102	5510	36.46	36.46	41.36	41.99	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.46	36.66	41.63	42.17	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.56	36.66	42.26	41.99	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.24	76.24	83.92	83.92	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.48	76.36	83.12	83.44	23.98		30.00		23.98		----	----

Band III straddle channel single antenna																
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	144	5720	13.34	13.34	17.04	17.14	22.25	22.25	28.25	28.25	23.31	23.34	2.792	2.792

Band III straddle channel MIMO																
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
HT20	MCS0	2	144	5720	13.89	13.94	17.34	17.54	22.43		28.43		23.39		3.242	3.241
HT40	MCS0	2	142	5710	33.18	33.28	35.68	35.77	23.98		30.00		23.98		2.802	2.685
VHT80	MCS0	2	138	5690	72.88	72.88	76.40	76.24	23.98		30.00		23.98		2.565	2.565

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna														
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	12.10	12.00		23.98	23.98	2.00	2.00	26.99	Pass
11a	6Mbps	1	116	5580	13.00	12.90		23.98	23.98	2.00	2.00	26.99	Pass
11a	6Mbps	1	140	5700	11.20	11.10		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	100	5500	9.40	9.50		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	116	5580	12.50	13.00		23.98	23.98	2.00	2.00	26.99	Pass
HT20	MCS0	1	140	5700	9.20	9.20		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	102	5510	12.70	13.00		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	110	5550	12.80	13.00		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	134	5670	12.80	13.00		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	100	5500	9.30	9.40		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	116	5580	12.40	12.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	140	5700	9.10	9.10		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	102	5510	12.60	12.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	110	5550	12.70	12.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	134	5670	12.70	12.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT80	MCS0	1	106	5530	10.80	10.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT80	MCS0	1	122	5610	13.00	13.10		23.98	23.98	2.00	2.00	26.99	Pass

FCC Band III MIMO													
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		
HT20	MCS0	2	100	5500	9.80	9.90	12.86	23.98		2.00		26.99	Pass
HT20	MCS0	2	116	5580	12.70	13.50	16.13	23.98		2.00		26.99	Pass
HT20	MCS0	2	140	5700	9.40	9.50	12.46	23.98		2.00		26.99	Pass
HT40	MCS0	2	102	5510	12.80	13.20	16.01	23.98		2.00		26.99	Pass
HT40	MCS0	2	110	5550	12.90	13.10	16.01	23.98		2.00		26.99	Pass
HT40	MCS0	2	134	5670	12.90	13.40	16.17	23.98		2.00		26.99	Pass
VHT20	MCS0	2	100	5500	9.70	9.80	12.76	23.98		2.00		26.99	Pass
VHT20	MCS0	2	116	5580	12.60	13.40	16.03	23.98		2.00		26.99	Pass
VHT20	MCS0	2	140	5700	9.30	9.40	12.36	23.98		2.00		26.99	Pass
VHT40	MCS0	2	102	5510	12.70	13.10	15.91	23.98		2.00		26.99	Pass
VHT40	MCS0	2	110	5550	12.80	13.00	15.91	23.98		2.00		26.99	Pass
VHT40	MCS0	2	134	5670	12.80	13.30	16.07	23.98		2.00		26.99	Pass
VHT80	MCS0	2	106	5530	10.90	11.00	13.96	23.98		2.00		26.99	Pass
VHT80	MCS0	2	122	5610	13.30	13.40	16.36	23.98		2.00		26.99	Pass

FCC Band III straddle channel single antenna														
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	144	5720	12.70	12.60		23.31	23.34	2.00	2.00	26.99	Pass
HT20	MCS0	1	144	5720	12.40	12.80		23.98	23.98	2.00	2.00	26.99	Pass
HT40	MCS0	1	142	5710	12.80	13.00		23.98	23.98	2.00	2.00	26.99	Pass
VHT20	MCS0	1	144	5720	12.30	12.70		23.98	23.98	2.00	2.00	26.99	Pass
VHT40	MCS0	1	142	5710	12.70	12.90		23.98	23.98	2.00	2.00	26.99	Pass
VHT80	MCS0	1	138	5690	12.90	13.10		23.98	23.98	2.00	2.00	26.99	Pass

FCC Band III straddle channel MIMO													
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		
HT20	MCS0	2	144	5720	12.70	12.90	15.81	23.39		2.00		26.99	Pass
HT40	MCS0	2	142	5710	12.90	13.10	16.01	23.98		2.00		26.99	Pass
VHT20	MCS0	2	144	5720	12.60	12.80	15.71	23.98		2.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	100	5500	2.53	4.08		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	116	5580	3.42	3.88		11.00	11.00	2.00	2.00		Pass
11a	6Mbps	1	140	5700	1.62	3.44		11.00	11.00	2.00	2.00		Pass

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HT20	MCS0	2	100	5500			3.10	11.00		5.01			Pass
HT20	MCS0	2	116	5580			6.42	11.00		5.01			Pass
HT20	MCS0	2	140	5700			2.87	11.00		5.01			Pass
HT40	MCS0	2	102	5510			3.35	11.00		5.01			Pass
HT40	MCS0	2	110	5550			3.43	11.00		5.01			Pass
HT40	MCS0	2	134	5670			3.08	11.00		5.01			Pass
VHT80	MCS0	2	106	5530			-1.39	11.00		5.01			Pass
VHT80	MCS0	2	122	5610			1.17	11.00		5.01			Pass

Band III straddle channel single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	144	5720	3.14	3.52		11.00	11.00	2.00	2.00		Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HT20	MCS0	2	144	5720			6.31	11.00		5.01			Pass
HT40	MCS0	2	142	5710			3.37	11.00		5.01			Pass
VHT80	MCS0	2	138	5690			0.82	11.00		5.01			Pass

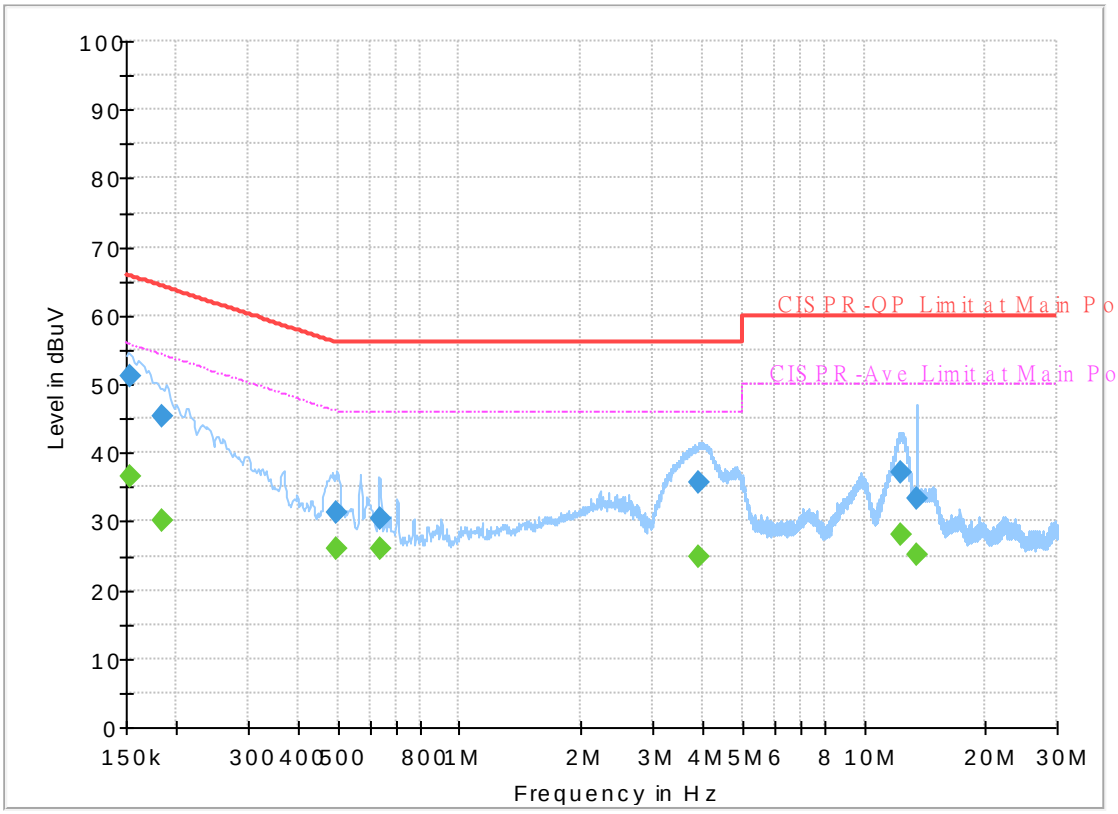
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	55~58%

EUT Information

Report NO :	992410-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



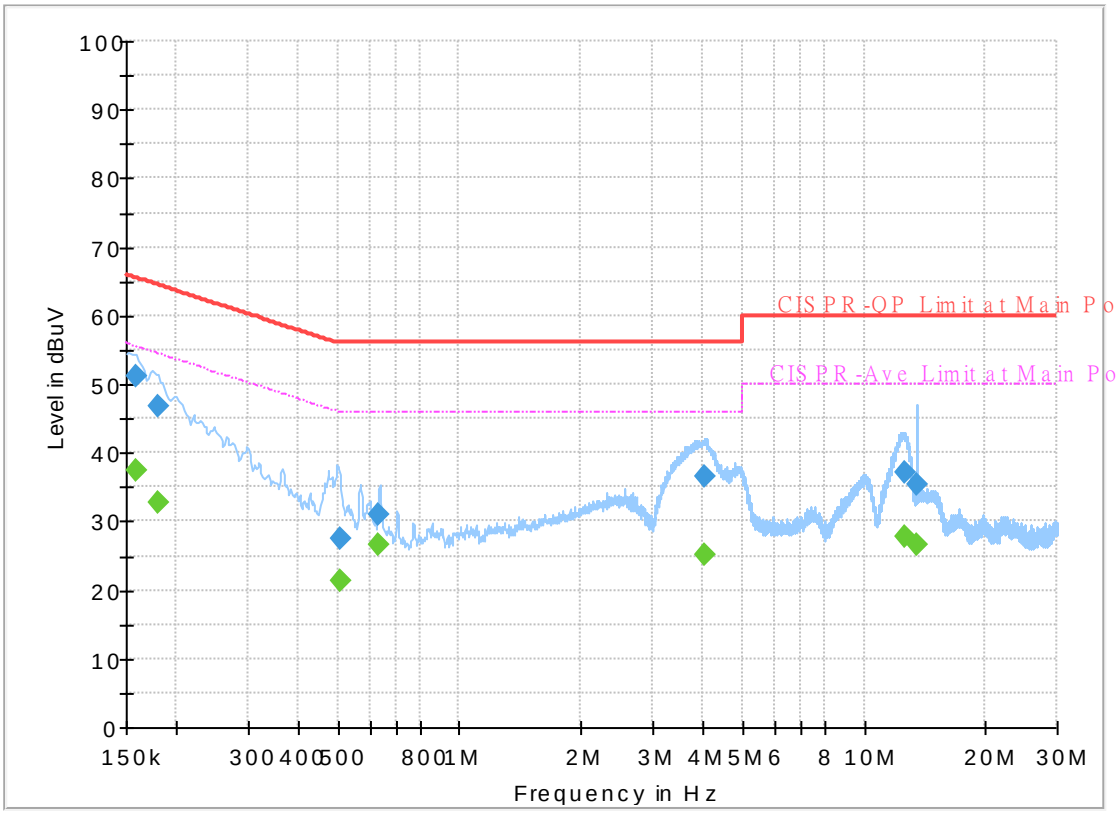
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154050	---	36.65	55.78	19.13	L1	OFF	19.5
0.154050	51.30	---	65.78	14.48	L1	OFF	19.5
0.183750	---	30.08	54.31	24.23	L1	OFF	19.5
0.183750	45.39	---	64.31	18.92	L1	OFF	19.5
0.495780	---	25.88	46.07	20.19	L1	OFF	19.5
0.495780	31.35	---	56.07	24.72	L1	OFF	19.5
0.636990	---	26.12	46.00	19.88	L1	OFF	19.5
0.636990	30.35	---	56.00	25.65	L1	OFF	19.5
3.909390	---	24.97	46.00	21.03	L1	OFF	19.6
3.909390	35.78	---	56.00	20.22	L1	OFF	19.6
12.380190	---	27.93	50.00	22.07	L1	OFF	19.7
12.380190	37.27	---	60.00	22.73	L1	OFF	19.7
13.560000	---	25.19	50.00	24.81	L1	OFF	19.7
13.560000	33.32	---	60.00	26.68	L1	OFF	19.7

EUT Information

Report NO :	992410-01
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)
0.159540	---	37.48	55.49	18.01	N	OFF	19.5
0.159540	51.19	---	65.49	14.30	N	OFF	19.5
0.179250	---	32.81	54.52	21.71	N	OFF	19.5
0.179250	46.71	---	64.52	17.81	N	OFF	19.5
0.507750	---	21.43	46.00	24.57	N	OFF	19.5
0.507750	27.44	---	56.00	28.56	N	OFF	19.5
0.633390	---	26.51	46.00	19.49	N	OFF	19.5
0.633390	31.02	---	56.00	24.98	N	OFF	19.5
4.021350	---	25.22	46.00	20.78	N	OFF	19.6
4.021350	36.44	---	56.00	19.56	N	OFF	19.6
12.561000	---	27.80	50.00	22.20	N	OFF	19.8
12.561000	37.15	---	60.00	22.85	N	OFF	19.8
13.560000	---	26.67	50.00	23.33	N	OFF	19.8
13.560000	35.44	---	60.00	24.56	N	OFF	19.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Cookie Ku, Fu Chen, Troye Hsieh	Temperature :	18.1 ~ 26.1°C
		Relative Humidity :	37.2 ~ 68.2%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5144.04	66.99	-7.01	74	57.98	31.8	10.03	32.82	100	114	P	H
		5150	49.82	-4.18	54	40.8	31.8	10.03	32.81	100	114	A	H
	*	5180	116.6	-	-	107.7	31.62	10.07	32.79	100	114	P	H
	*	5180	108.89	-	-	99.99	31.62	10.07	32.79	100	114	A	H
													H
													H
		5140.14	55.99	-18.01	74	46.99	31.8	10.02	32.82	380	181	P	V
		5143.78	42.16	-11.84	54	33.15	31.8	10.03	32.82	380	181	A	V
	*	5180	106.39	-	-	97.49	31.62	10.07	32.79	380	181	P	V
	*	5180	98.91	-	-	90.01	31.62	10.07	32.79	380	181	A	V
													V
													V
802.11a CH 44 5220MHz		5148.72	59.81	-14.19	74	50.79	31.8	10.03	32.81	100	115	P	H
		5145.86	45.9	-8.1	54	36.89	31.8	10.03	32.82	100	115	A	H
	*	5220	116.02	-	-	107.23	31.46	10.1	32.77	100	115	P	H
	*	5220	108.61	-	-	99.82	31.46	10.1	32.77	100	115	A	H
		5371.18	54.44	-19.56	74	45.54	31.43	10.14	32.67	100	115	P	H
		5452.72	47	-7	54	37.68	31.71	10.23	32.62	100	115	A	H
		5074.36	51.12	-22.88	74	42.38	31.65	9.95	32.86	400	175	P	V
		5078.52	41.59	-12.41	54	32.82	31.67	9.96	32.86	400	175	A	V
	*	5220	105.13	-	-	96.34	31.46	10.1	32.77	400	175	P	V
	*	5220	97.75	-	-	88.96	31.46	10.1	32.77	400	175	A	V
		5452.45	50.01	-23.99	74	40.69	31.71	10.23	32.62	400	175	P	V
		5458.93	40.6	-13.4	54	31.24	31.74	10.24	32.62	400	175	A	V

802.11a CH 48 5240MHz		5145.86	52.32	-21.68	74	43.31	31.8	10.03	32.82	100	114	P	H
		5145.6	44.03	-9.97	54	35.02	31.8	10.03	32.82	100	114	A	H
	*	5240	116.01	-	-	107.25	31.42	10.1	32.76	100	114	P	H
	*	5240	108.57	-	-	99.81	31.42	10.1	32.76	100	114	A	H
		5452.99	53.69	-20.31	74	44.37	31.71	10.23	32.62	100	114	P	H
		5452.72	46.45	-7.55	54	37.13	31.71	10.23	32.62	100	114	A	H
		5044.98	51.59	-22.41	74	43.07	31.48	9.92	32.88	143	184	P	V
		5107.12	41.76	-12.24	54	32.81	31.8	9.99	32.84	143	184	A	V
	*	5240	105.41	-	-	96.65	31.42	10.1	32.76	143	184	P	V
	*	5240	97.87	-	-	89.11	31.42	10.1	32.76	143	184	A	V
		5383.6	51.05	-22.95	74	42.06	31.5	10.15	32.66	143	184	P	V
		5452.99	41.39	-12.61	54	32.07	31.71	10.23	32.62	143	184	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	46.77	-21.43	68.2	51.91	39.8	16.35	61.29	100	0	P	H
		15540	45.54	-28.46	74	47.4	37.84	20.62	60.32	100	0	P	H
													H
													H
		10360	46.67	-21.53	68.2	51.81	39.8	16.35	61.29	100	0	P	V
		15540	46.23	-27.77	74	48.09	37.84	20.62	60.32	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	47.33	-20.87	68.2	52.25	39.96	16.4	61.28	100	0	P	H
		15660	45.68	-28.32	74	48.15	37.42	20.6	60.49	100	0	P	H
													H
													H
		10440	46.35	-21.85	68.2	51.27	39.96	16.4	61.28	100	0	P	V
		15660	44.75	-29.25	74	47.22	37.42	20.6	60.49	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	45.33	-22.87	68.2	50.24	39.92	16.43	61.26	100	0	P	H
		15720	45.2	-28.8	74	47.93	37.28	20.58	60.59	100	0	P	H
													H
													H
		10480	46.43	-21.77	68.2	51.34	39.92	16.43	61.26	100	0	P	V
		15720	45.97	-28.03	74	48.7	37.28	20.58	60.59	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5149.94	52.72	-21.28	74	43.7	31.8	10.03	32.81	100	116	P	H
		5145.52	44.56	-9.44	54	35.55	31.8	10.03	32.82	100	116	A	H
	*	5260	116.13	-	-	107.36	31.4	10.11	32.74	100	116	P	H
	*	5260	108.7	-	-	99.93	31.4	10.11	32.74	100	116	A	H
		5350.8	61.51	-12.49	74	52.76	31.3	10.14	32.69	100	116	P	H
		5452.8	47.22	-6.78	54	37.9	31.71	10.23	32.62	100	116	A	H
		5068.34	52.02	-21.98	74	43.33	31.61	9.95	32.87	100	183	P	V
		5102.68	41.55	-12.45	54	32.61	31.8	9.98	32.84	100	183	A	V
	*	5260	104.91	-	-	96.14	31.4	10.11	32.74	100	183	P	V
	*	5260	97.54	-	-	88.77	31.4	10.11	32.74	100	183	A	V
		5363.04	51.42	-22.58	74	42.58	31.38	10.14	32.68	100	183	P	V
		5452.8	41.73	-12.27	54	32.41	31.71	10.23	32.62	100	183	A	V
802.11a CH 60 5300MHz		5147.9	52.03	-21.97	74	43.02	31.8	10.03	32.82	103	118	P	H
		5145.52	43.6	-10.4	54	34.59	31.8	10.03	32.82	103	118	A	H
	*	5300	116.07	-	-	107.27	31.4	10.12	32.72	103	118	P	H
	*	5300	108.54	-	-	99.74	31.4	10.12	32.72	103	118	A	H
		5350.32	67.24	-6.76	74	58.49	31.3	10.14	32.69	103	118	P	H
		5350.56	49.74	-4.26	54	40.99	31.3	10.14	32.69	103	118	A	H
		5095.88	51.44	-22.56	74	42.53	31.78	9.98	32.85	100	182	P	V
		5063.92	41.6	-12.4	54	32.95	31.58	9.94	32.87	100	182	A	V
	*	5300	105.16	-	-	96.36	31.4	10.12	32.72	100	182	P	V
	*	5300	97.74	-	-	88.94	31.4	10.12	32.72	100	182	A	V
		5350.32	58.06	-15.94	74	49.31	31.3	10.14	32.69	100	182	P	V
		5350.08	42.13	-11.87	54	33.38	31.3	10.14	32.69	100	182	A	V

	*	5320	115.77	-	-	106.99	31.36	10.13	32.71	100	116	P	H
	*	5320	108.12	-	-	99.34	31.36	10.13	32.71	100	116	A	H
		5352.32	67.37	-6.63	74	58.6	31.31	10.14	32.68	100	116	P	H
		5351.84	49.51	-4.49	54	40.74	31.31	10.14	32.68	100	116	A	H
													H
802.11a													H
CH 64	*	5320	105.17	-	-	96.39	31.36	10.13	32.71	100	181	P	V
5320MHz	*	5320	97.73	-	-	88.95	31.36	10.13	32.71	100	181	A	V
		5361.12	58.04	-15.96	74	49.21	31.37	10.14	32.68	100	181	P	V
		5359.2	41.97	-12.03	54	33.15	31.36	10.14	32.68	100	181	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 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	45.78	-22.42	68.2	50.69	39.9	16.46	61.27	100	0	P	H
		15780	45.7	-28.3	74	48.58	37.22	20.57	60.67	100	0	P	H
													H
													H
		10520	46.46	-21.74	68.2	51.37	39.9	16.46	61.27	100	0	P	V
		15780	45.92	-28.08	74	48.8	37.22	20.57	60.67	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	45.15	-28.85	74	50.05	39.9	16.51	61.31	100	0	P	H
		15900	43.63	-30.37	74	47.03	36.9	20.54	60.84	100	0	P	H
													H
													H
		10600	45.25	-28.75	74	50.15	39.9	16.51	61.31	100	0	P	V
		15900	43.85	-30.15	74	47.25	36.9	20.54	60.84	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	45.75	-28.25	74	50.72	39.82	16.54	61.33	100	0	P	H
		15960	44.68	-29.32	74	48.31	36.78	20.53	60.94	100	0	P	H
													H
													H
		10640	46.01	-27.99	74	50.98	39.82	16.54	61.33	100	0	P	V
		15960	44.92	-29.08	74	48.55	36.78	20.53	60.94	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.32	63.49	-10.51	74	54.14	31.73	10.24	32.62	100	116	P	H
		5465.52	64.56	-3.64	68.2	55.16	31.76	10.25	32.61	100	116	P	H
		5452.88	46.92	-7.08	54	37.6	31.71	10.23	32.62	100	116	A	H
	*	5500	113.25	-	-	103.63	31.9	10.31	32.59	100	116	P	H
	*	5500	105.34	-	-	95.72	31.9	10.31	32.59	100	116	A	H
													H
		5458	55.8	-18.2	74	46.45	31.73	10.24	32.62	100	167	P	V
		5465.52	57.28	-10.92	68.2	47.88	31.76	10.25	32.61	100	167	P	V
		5452.56	41.88	-12.12	54	32.56	31.71	10.23	32.62	100	167	A	V
	*	5500	102.85	-	-	93.23	31.9	10.31	32.59	100	167	P	V
	*	5500	95.26	-	-	85.64	31.9	10.31	32.59	100	167	A	V
													V
802.11a CH 116 5580MHz		5452.96	54.15	-19.85	74	44.83	31.71	10.23	32.62	100	117	P	H
		5468.56	55.07	-13.13	68.2	45.65	31.77	10.26	32.61	100	117	P	H
		5452.96	45.93	-8.07	54	36.61	31.71	10.23	32.62	100	117	A	H
	*	5580	117.74	-	-	108.02	31.86	10.43	32.57	100	117	P	H
	*	5580	109.9	-	-	100.18	31.86	10.43	32.57	100	117	A	H
		5759.96	54.35	-13.85	68.2	44.1	32.22	10.55	32.52	100	117	P	H
		5445.52	50.61	-23.39	74	41.32	31.69	10.22	32.62	100	171	P	V
		5469.76	51.08	-17.12	68.2	41.65	31.78	10.26	32.61	100	171	P	V
		5452.72	41.17	-12.83	54	31.85	31.71	10.23	32.62	100	171	A	V
	*	5580	107.55	-	-	97.83	31.86	10.43	32.57	100	171	P	V
	*	5580	99.99	-	-	90.27	31.86	10.43	32.57	100	171	A	V
		5742.32	51.48	-16.72	68.2	41.28	32.18	10.54	32.52	100	171	P	V

802.11a CH 140 5700MHz	*	5700	111.94	-	-	101.86	32.1	10.51	32.53	100	114	P	H
	*	5700	104.37	-	-	94.29	32.1	10.51	32.53	100	114	A	H
		5726.84	64.85	-3.35	68.2	54.7	32.15	10.53	32.53	100	114	P	H
													H
													H
													H
	*	5700	103.24	-	-	93.16	32.1	10.51	32.53	246	228	P	V
	*	5700	95.84	-	-	85.76	32.1	10.51	32.53	246	228	A	V
		5749.64	53.24	-14.96	68.2	43.02	32.2	10.54	32.52	246	228	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 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	46.99	-27.01	74	51.74	40	16.76	61.51	100	0	P	H
		16500	47.4	-20.8	68.2	48.86	38.4	21.19	61.05	100	0	P	H
													H
													H
		11000	46.64	-27.36	74	51.39	40	16.76	61.51	100	0	P	V
		16500	47.92	-20.28	68.2	49.38	38.4	21.19	61.05	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	47.74	-26.26	74	52.59	39.48	16.99	61.32	100	0	P	H
		16740	48.04	-20.16	68.2	47.73	39.38	21.51	60.58	100	0	P	H
													H
													H
		11160	47.22	-26.78	74	52.07	39.48	16.99	61.32	100	0	P	V
		16740	47.46	-20.74	68.2	47.15	39.38	21.51	60.58	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	47.17	-26.83	74	51.18	39.7	17.34	61.05	100	0	P	H
		17100	49.64	-18.56	68.2	48.16	39.7	21.95	60.17	100	0	P	H
													H
													H
		11400	47.08	-26.92	74	51.09	39.7	17.34	61.05	100	0	P	V
		17100	48.77	-19.43	68.2	47.29	39.7	21.95	60.17	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

Band 3 - Straddle Channel

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 144 5720MHz		5367.55	55.06	-18.94	74	46.18	31.41	10.14	32.67	100	113	P	H
		5467	50.87	-17.33	68.2	41.46	31.77	10.25	32.61	100	113	P	H
		5452.96	43.49	-10.51	54	34.17	31.71	10.23	32.62	100	113	A	H
	*	5720	117.87	-	-	107.73	32.14	10.53	32.53	100	113	P	H
	*	5720	110.47	-	-	100.33	32.14	10.53	32.53	100	113	A	H
		5856.25	55.52	-12.68	68.2	45.01	32.41	10.59	32.49	100	113	P	H
		5449.84	50.16	-23.84	74	40.85	31.7	10.23	32.62	299	232	P	V
		5466.22	50.02	-18.18	68.2	40.62	31.76	10.25	32.61	299	232	P	V
		5454.13	40.76	-13.24	54	31.43	31.72	10.23	32.62	299	232	A	V
	*	5720	108.68	-	-	98.54	32.14	10.53	32.53	299	232	P	V
	*	5720	101.14	-	-	91	32.14	10.53	32.53	299	232	A	V
		5877.75	52.2	-16	68.2	41.62	32.46	10.6	32.48	299	232	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	47.52	-26.48	74	51.47	39.66	17.4	61.01	100	0	P	H
		17160	48.9	-19.3	68.2	47.13	40	22	60.23	100	0	P	H
													H
													H
		11440	47.19	-26.81	74	51.14	39.66	17.4	61.01	100	0	P	V
		17160	48.99	-19.21	68.2	47.22	40	22	60.23	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5140.92	68.84	-5.16	74	59.83	31.8	10.03	32.82	100	111	P	H
		5145.6	49.78	-4.22	54	40.77	31.8	10.03	32.82	100	111	A	H
	*	5180	117.44	-	-	108.54	31.62	10.07	32.79	100	111	P	H
	*	5180	110.23	-	-	101.33	31.62	10.07	32.79	100	111	A	H
802.11n													H
HT20													H
CH 36		5148.72	61.77	-12.23	74	52.75	31.8	10.03	32.81	115	275	P	V
5180MHz		5149.5	44.62	-9.38	54	35.6	31.8	10.03	32.81	115	275	A	V
	*	5180	110.2	-	-	101.3	31.62	10.07	32.79	115	275	P	V
	*	5180	103.07	-	-	94.17	31.62	10.07	32.79	115	275	A	V
													V
													V
		5146.9	60.36	-13.64	74	51.35	31.8	10.03	32.82	101	110	P	H
		5145.6	44.82	-9.18	54	35.81	31.8	10.03	32.82	101	110	A	H
	*	5220	117.01	-	-	108.22	31.46	10.1	32.77	101	110	P	H
	*	5220	109.39	-	-	100.6	31.46	10.1	32.77	101	110	A	H
802.11n		5403.31	51.84	-22.16	74	42.72	31.61	10.16	32.65	101	110	P	H
HT20		5452.99	43	-11	54	33.68	31.71	10.23	32.62	101	110	A	H
CH 44		5130.52	52.63	-21.37	74	43.65	31.8	10.01	32.83	299	152	P	V
5220MHz		5143	41.81	-12.19	54	32.8	31.8	10.03	32.82	299	152	A	V
	*	5220	109.81	-	-	101.02	31.46	10.1	32.77	299	152	P	V
	*	5220	102.71	-	-	93.92	31.46	10.1	32.77	299	152	A	V
		5367.94	50.44	-23.56	74	41.56	31.41	10.14	32.67	299	152	P	V
		5457.31	40.59	-13.41	54	31.24	31.73	10.24	32.62	299	152	A	V

		5147.42	56.78	-17.22	74	47.77	31.8	10.03	32.82	100	111	P	H
		5145.6	43.6	-10.4	54	34.59	31.8	10.03	32.82	100	111	A	H
	*	5240	117.07	-	-	108.31	31.42	10.1	32.76	100	111	P	H
	*	5240	109.58	-	-	100.82	31.42	10.1	32.76	100	111	A	H
802.11n		5395.21	52.52	-21.48	74	43.46	31.57	10.15	32.66	100	111	P	H
HT20		5452.72	43.85	-10.15	54	34.53	31.71	10.23	32.62	100	111	A	H
CH 48		5121.68	50.99	-23.01	74	42.02	31.8	10	32.83	259	152	P	V
5240MHz		5079.04	41.48	-12.52	54	32.71	31.67	9.96	32.86	259	152	A	V
	*	5240	110.04	-	-	101.28	31.42	10.1	32.76	259	152	P	V
	*	5240	102.99	-	-	94.23	31.42	10.1	32.76	259	152	A	V
		5440.3	50.34	-23.66	74	41.08	31.68	10.21	32.63	259	152	P	V
		5459.47	40.8	-13.2	54	31.44	31.74	10.24	32.62	259	152	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+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	47.33	-20.87	68.2	52.47	39.8	16.35	61.29	100	0	P	H
		15540	47.36	-26.64	74	49.22	37.84	20.62	60.32	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	46.46	-21.74	68.2	51.6	39.8	16.35	61.29	100	0	P	V
5180MHz		15540	46.34	-27.66	74	48.2	37.84	20.62	60.32	100	0	P	V
													V
													V
		10440	46.7	-21.5	68.2	51.62	39.96	16.4	61.28	100	0	P	H
		15660	46.27	-27.73	74	48.74	37.42	20.6	60.49	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	47.3	-20.9	68.2	52.22	39.96	16.4	61.28	100	0	P	V
5220MHz		15660	46.19	-27.81	74	48.66	37.42	20.6	60.49	100	0	P	V
													V
													V
		10480	46.65	-21.55	68.2	51.56	39.92	16.43	61.26	100	0	P	H
		15720	45.54	-28.46	74	48.27	37.28	20.58	60.59	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	46	-22.2	68.2	50.91	39.92	16.43	61.26	100	0	P	V
5240MHz		15720	46.51	-27.49	74	49.24	37.28	20.58	60.59	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.24	63.87	-10.13	74	54.85	31.8	10.03	32.81	102	112	P	H
		5150	50.04	-3.96	54	41.02	31.8	10.03	32.81	102	112	A	H
	*	5190	112.3	-	-	103.45	31.56	10.08	32.79	102	112	P	H
	*	5190	104.4	-	-	95.55	31.56	10.08	32.79	102	112	A	H
802.11n		5352.2	50.83	-23.17	74	42.06	31.31	10.14	32.68	102	112	P	H
HT40		5452.72	43.54	-10.46	54	34.22	31.71	10.23	32.62	102	112	A	H
CH 38		5142.48	58.21	-15.79	74	49.2	31.8	10.03	32.82	234	263	P	V
5190MHz		5148.98	44.78	-9.22	54	35.76	31.8	10.03	32.81	234	263	A	V
	*	5190	105.87	-	-	97.02	31.56	10.08	32.79	234	263	P	V
	*	5190	97.95	-	-	89.1	31.56	10.08	32.79	234	263	A	V
		5420.52	49.52	-24.48	74	40.34	31.64	10.18	32.64	234	263	P	V
		5453.56	41.34	-12.66	54	32.02	31.71	10.23	32.62	234	263	A	V
		5139.62	58.41	-15.59	74	49.41	31.8	10.02	32.82	100	116	P	H
		5142.22	46	-8	54	36.99	31.8	10.03	32.82	100	116	A	H
	*	5230	114.03	-	-	105.25	31.44	10.1	32.76	100	116	P	H
	*	5230	106.55	-	-	97.77	31.44	10.1	32.76	100	116	A	H
802.11n		5351.92	59.64	-14.36	74	50.87	31.31	10.14	32.68	100	116	P	H
HT40		5350	44.89	-9.11	54	36.14	31.3	10.14	32.69	100	116	A	H
CH 46		5145.6	52.83	-21.17	74	43.82	31.8	10.03	32.82	107	265	P	V
5230MHz		5149.76	42.43	-11.57	54	33.41	31.8	10.03	32.81	107	265	A	V
	*	5230	108.01	-	-	99.23	31.44	10.1	32.76	107	265	P	V
	*	5230	100.05	-	-	91.27	31.44	10.1	32.76	107	265	A	V
		5353.04	54.19	-19.81	74	45.41	31.32	10.14	32.68	107	265	P	V
		5458.88	41.77	-12.23	54	32.41	31.74	10.24	32.62	107	265	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	46.68	-21.52	68.2	51.7	39.9	16.37	61.29	100	0	P	H
		15570	46.65	-27.35	74	48.68	37.72	20.62	60.37	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	47.63	-20.57	68.2	52.65	39.9	16.37	61.29	100	0	P	V
5190MHz		15570	46.76	-27.24	74	48.79	37.72	20.62	60.37	100	0	P	V
													V
													V
		10460	45.36	-22.84	68.2	50.27	39.94	16.42	61.27	100	0	P	H
		15690	46.49	-27.51	74	49.11	37.33	20.59	60.54	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	45.31	-22.89	68.2	50.22	39.94	16.42	61.27	100	0	P	V
5230MHz		15690	46.36	-27.64	74	48.98	37.33	20.59	60.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5143.82	57.65	-16.35	74	48.64	31.8	10.03	32.82	100	119	P	H
		5137.7	50.11	-3.89	54	41.11	31.8	10.02	32.82	100	119	A	H
	*	5210	106.05	-	-	97.26	31.48	10.09	32.78	100	119	P	H
	*	5210	98.42	-	-	89.63	31.48	10.09	32.78	100	119	A	H
		5369.26	49.93	-24.07	74	41.04	31.42	10.14	32.67	100	119	P	H
		5452.72	44.66	-9.34	54	35.34	31.71	10.23	32.62	100	119	A	H
		5133.28	50.47	-23.53	74	41.47	31.8	10.02	32.82	247	263	P	V
		5146.2	44.79	-9.21	54	35.78	31.8	10.03	32.82	247	263	A	V
	*	5210	99.25	-	-	90.46	31.48	10.09	32.78	247	263	P	V
	*	5210	91.66	-	-	82.87	31.48	10.09	32.78	247	263	A	V
		5402.02	49	-25	74	39.9	31.6	10.15	32.65	247	263	P	V
		5436.08	41.24	-12.76	54	31.99	31.67	10.21	32.63	247	263	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+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	47.52	-20.68	68.2	52.43	39.98	16.39	61.28	100	0	P	H
		15630	45.7	-28.3	74	48.06	37.51	20.6	60.47	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	46.35	-21.85	68.2	51.26	39.98	16.39	61.28	100	0	P	V
5210MHz		15630	45.76	-28.24	74	48.12	37.51	20.6	60.47	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5083.98	51.01	-22.99	74	42.21	31.7	9.96	32.86	100	110	P	H
		5145.52	43.4	-10.6	54	34.39	31.8	10.03	32.82	100	110	A	H
	*	5260	117.51	-	-	108.74	31.4	10.11	32.74	100	110	P	H
	*	5260	109.96	-	-	101.19	31.4	10.11	32.74	100	110	A	H
802.11n		5364	53.93	-20.07	74	45.09	31.38	10.14	32.68	100	110	P	H
HT20		5350.8	44.05	-9.95	54	35.3	31.3	10.14	32.69	100	110	A	H
CH 52		5135.66	51.17	-22.83	74	42.17	31.8	10.02	32.82	276	152	P	V
5260MHz		5091.46	41.69	-12.31	54	32.82	31.75	9.97	32.85	276	152	A	V
	*	5260	110.38	-	-	101.61	31.4	10.11	32.74	276	152	P	V
	*	5260	102.73	-	-	93.96	31.4	10.11	32.74	276	152	A	V
		5455.92	40.74	-13.26	54	31.4	31.72	10.24	32.62	276	152	A	V
		5353.44	55.86	-18.14	74	47.08	31.32	10.14	32.68	276	152	P	V
		5119.68	52.62	-21.38	74	43.65	31.8	10	32.83	100	118	P	H
		5145.52	43.32	-10.68	54	34.31	31.8	10.03	32.82	100	118	A	H
	*	5300	116.97	-	-	108.17	31.4	10.12	32.72	100	118	P	H
	*	5300	109.6	-	-	100.8	31.4	10.12	32.72	100	118	A	H
802.11n		5352.48	67.16	-6.84	74	58.39	31.31	10.14	32.68	100	118	P	H
HT20		5351.52	48.89	-5.11	54	40.13	31.31	10.14	32.69	100	118	A	H
CH 60		5091.46	51.03	-22.97	74	42.16	31.75	9.97	32.85	116	266	P	V
5300MHz		5106.42	41.57	-12.43	54	32.62	31.8	9.99	32.84	116	266	A	V
	*	5300	111.16	-	-	102.36	31.4	10.12	32.72	116	266	P	V
	*	5300	103.55	-	-	94.75	31.4	10.12	32.72	116	266	A	V
		5352	64.06	-9.94	74	55.29	31.31	10.14	32.68	116	266	P	V
		5350.08	45.52	-8.48	54	36.77	31.3	10.14	32.69	116	266	A	V

	*	5320	116.44	-	-	107.66	31.36	10.13	32.71	100	119	P	H
	*	5320	108.77	-	-	99.99	31.36	10.13	32.71	100	119	A	H
		5354.4	69.92	-4.08	74	61.13	31.33	10.14	32.68	100	119	P	H
		5350.08	50.22	-3.78	54	41.47	31.3	10.14	32.69	100	119	A	H
802.11n													H
HT20													H
CH 64	*	5320	111.2	-	-	102.42	31.36	10.13	32.71	112	266	P	V
5320MHz	*	5320	103.44	-	-	94.66	31.36	10.13	32.71	112	266	A	V
		5355.84	63.37	-10.63	74	54.57	31.34	10.14	32.68	112	266	P	V
		5350.56	45.05	-8.95	54	36.3	31.3	10.14	32.69	112	266	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	45.86	-22.34	68.2	50.77	39.9	16.46	61.27	100	0	P	H
		15780	46.72	-27.28	74	49.6	37.22	20.57	60.67	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	45.66	-22.54	68.2	50.57	39.9	16.46	61.27	100	0	P	V
5260MHz		15780	46.29	-27.71	74	49.17	37.22	20.57	60.67	100	0	P	V
													V
													V
		10600	46.24	-27.76	74	51.14	39.9	16.51	61.31	100	0	P	H
		15900	44.22	-29.78	74	47.62	36.9	20.54	60.84	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	45.77	-28.23	74	50.67	39.9	16.51	61.31	100	0	P	V
5300MHz		15900	44.73	-29.27	74	48.13	36.9	20.54	60.84	100	0	P	V
													V
													V
		10640	45.31	-28.69	74	50.28	39.82	16.54	61.33	100	0	P	H
		15960	44.61	-29.39	74	48.24	36.78	20.53	60.94	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	46.02	-27.98	74	50.99	39.82	16.54	61.33	100	0	P	V
5320MHz		15960	44.77	-29.23	74	48.4	36.78	20.53	60.94	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5122.06	51.05	-22.95	74	42.08	31.8	10	32.83	100	116	P	H
		5145.52	43.91	-10.09	54	34.9	31.8	10.03	32.82	100	116	A	H
	*	5270	114.31	-	-	105.54	31.4	10.11	32.74	100	116	P	H
	*	5270	106.55	-	-	97.78	31.4	10.11	32.74	100	116	A	H
		5353.2	62.86	-11.14	74	54.08	31.32	10.14	32.68	100	116	P	H
		5352.96	47.44	-6.56	54	38.66	31.32	10.14	32.68	100	116	A	H
		5095.54	51.17	-22.83	74	42.27	31.77	9.98	32.85	102	265	P	V
		5075.14	42.23	-11.77	54	33.49	31.65	9.95	32.86	102	265	A	V
	*	5270	107.81	-	-	99.04	31.4	10.11	32.74	102	265	P	V
	*	5270	99.94	-	-	91.17	31.4	10.11	32.74	102	265	A	V
		5355.6	60.37	-13.63	74	51.58	31.33	10.14	32.68	102	265	P	V
		5355.12	45.01	-8.99	54	36.22	31.33	10.14	32.68	102	265	A	V
802.11n HT40 CH 62 5310MHz		5104.38	51.11	-22.89	74	42.17	31.8	9.98	32.84	103	115	P	H
		5145.52	43.63	-10.37	54	34.62	31.8	10.03	32.82	103	115	A	H
	*	5310	110.05	-	-	101.26	31.38	10.12	32.71	103	115	P	H
	*	5310	102.58	-	-	93.79	31.38	10.12	32.71	103	115	A	H
		5350.32	62.12	-11.88	74	53.37	31.3	10.14	32.69	103	115	P	H
		5350.08	50.77	-3.23	54	42.02	31.3	10.14	32.69	103	115	A	H
		5084.66	51.2	-22.8	74	42.39	31.71	9.96	32.86	117	201	P	V
		5094.18	42.17	-11.83	54	33.28	31.77	9.97	32.85	117	201	A	V
	*	5310	98.15	-	-	89.36	31.38	10.12	32.71	117	201	P	V
	*	5310	89.24	-	-	80.45	31.38	10.12	32.71	117	201	A	V
		5452.08	50.42	-23.58	74	41.1	31.71	10.23	32.62	117	201	P	V
		5444.88	40.83	-13.17	54	31.55	31.69	10.22	32.63	117	201	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	45.58	-22.62	68.2	50.49	39.9	16.46	61.27	100	0	P	H
		15780	46.4	-27.6	74	49.28	37.22	20.57	60.67	100	0	P	H
802.11n													H
HT40													H
CH 54		10520	46.52	-21.68	68.2	51.43	39.9	16.46	61.27	100	0	P	V
5270MHz		15780	46.31	-27.69	74	49.19	37.22	20.57	60.67	100	0	P	V
													V
													V
		10620	45.57	-28.43	74	50.51	39.86	16.52	61.32	100	0	P	H
		15930	44.8	-29.2	74	48.31	36.84	20.54	60.89	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	45.93	-28.07	74	50.87	39.86	16.52	61.32	100	0	P	V
5310MHz		15930	45.07	-28.93	74	48.58	36.84	20.54	60.89	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5098.7	51.3	-22.7	74	42.38	31.79	9.98	32.85	103	115	P	H
		5145.5	43.38	-10.62	54	34.37	31.8	10.03	32.82	103	115	A	H
	*	5290	103.79	-	-	94.99	31.4	10.12	32.72	103	115	P	H
	*	5290	95.83	-	-	87.03	31.4	10.12	32.72	103	115	A	H
		5355.12	59.89	-14.11	74	51.1	31.33	10.14	32.68	103	115	P	H
		5356.56	50.45	-3.55	54	41.65	31.34	10.14	32.68	103	115	A	H
		5113.1	50.18	-23.82	74	41.23	31.8	9.99	32.84	255	266	P	V
		5083.7	42.2	-11.8	54	33.4	31.7	9.96	32.86	255	266	A	V
	*	5290	96.53	-	-	87.73	31.4	10.12	32.72	255	266	P	V
	*	5290	88.71	-	-	79.91	31.4	10.12	32.72	255	266	A	V
		5363.28	55.11	-18.89	74	46.27	31.38	10.14	32.68	255	266	P	V
		5361.12	46.92	-7.08	54	38.09	31.37	10.14	32.68	255	266	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+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	44.84	-23.36	68.2	49.74	39.9	16.5	61.3	100	0	P	H
		15870	44.86	-29.14	74	48.14	36.99	20.55	60.82	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	44.79	-23.41	68.2	49.69	39.9	16.5	61.3	100	0	P	V
5290MHz		15870	44.7	-29.3	74	47.98	36.99	20.55	60.82	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5458.8	62.35	-11.65	74	52.99	31.74	10.24	32.62	100	117	P	H
		5465.68	63.38	-4.82	68.2	53.98	31.76	10.25	32.61	100	117	P	H
		5452.88	44.3	-9.7	54	34.98	31.71	10.23	32.62	100	117	A	H
	*	5500	108.83	-	-	99.21	31.9	10.31	32.59	100	117	P	H
802.11n	*	5500	101.27	-	-	91.65	31.9	10.31	32.59	100	117	A	H
HT20													H
CH 100		5454.48	60.34	-13.66	74	51.01	31.72	10.23	32.62	104	263	P	V
5500MHz		5469.84	62.16	-6.04	68.2	52.73	31.78	10.26	32.61	104	263	P	V
		5457.52	43.57	-10.43	54	34.22	31.73	10.24	32.62	104	263	A	V
	*	5500	107.94	-	-	98.32	31.9	10.31	32.59	104	263	P	V
	*	5500	100.36	-	-	90.74	31.9	10.31	32.59	104	263	A	V
													V
		5456.08	53.05	-20.95	74	43.71	31.72	10.24	32.62	100	118	P	H
		5467.84	53.89	-14.31	68.2	44.47	31.77	10.26	32.61	100	118	P	H
		5452.96	44.53	-9.47	54	35.21	31.71	10.23	32.62	100	118	A	H
	*	5580	117.89	-	-	108.17	31.86	10.43	32.57	100	118	P	H
802.11n	*	5580	109.93	-	-	100.21	31.86	10.43	32.57	100	118	A	H
HT20		5735.705	54.48	-13.72	68.2	44.3	32.17	10.53	32.52	100	118	P	H
CH 116		5441.68	51.39	-22.61	74	42.13	31.68	10.21	32.63	122	272	P	V
5580MHz		5464	50.92	-17.28	68.2	41.52	31.76	10.25	32.61	122	272	P	V
		5459.68	41	-13	54	31.64	31.74	10.24	32.62	122	272	A	V
	*	5580	113.69	-	-	103.97	31.86	10.43	32.57	122	272	P	V
	*	5580	106.46	-	-	96.74	31.86	10.43	32.57	122	272	A	V
		5735.075	52.65	-15.55	68.2	42.47	32.17	10.53	32.52	122	272	P	V

	*	5700	111.24	-	-	101.16	32.1	10.51	32.53	100	119	P	H
	*	5700	103.12	-	-	93.04	32.1	10.51	32.53	100	119	A	H
		5731.8	64.85	-3.35	68.2	54.69	32.16	10.53	32.53	100	119	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	107.69	-	-	97.61	32.1	10.51	32.53	106	257	P	V
5700MHz	*	5700	100.23	-	-	90.15	32.1	10.51	32.53	106	257	A	V
		5725.64	62.61	-5.59	68.2	52.46	32.15	10.53	32.53	106	257	P	V
													V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	46.92	-27.08	74	51.67	40	16.76	61.51	100	0	P	H
		16500	47.23	-20.97	68.2	48.69	38.4	21.19	61.05	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	46.6	-27.4	74	51.35	40	16.76	61.51	100	0	P	V
5500MHz		16500	46.93	-21.27	68.2	48.39	38.4	21.19	61.05	100	0	P	V
													V
													V
		11160	48.54	-25.46	74	53.39	39.48	16.99	61.32	100	0	P	H
		16740	48.62	-19.58	68.2	48.31	39.38	21.51	60.58	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	47.31	-26.69	74	52.16	39.48	16.99	61.32	100	0	P	V
5580MHz		16740	48.96	-19.24	68.2	48.65	39.38	21.51	60.58	100	0	P	V
													V
													V
		11400	46.56	-27.44	74	50.57	39.7	17.34	61.05	100	0	P	H
		17100	48.8	-19.4	68.2	47.32	39.7	21.95	60.17	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	47.12	-26.88	74	51.13	39.7	17.34	61.05	100	0	P	V
5700MHz		17100	49.21	-18.99	68.2	47.73	39.7	21.95	60.17	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.92	64.84	-9.16	74	55.48	31.74	10.24	32.62	100	109	P	H
		5462.08	64.23	-3.97	68.2	54.84	31.75	10.25	32.61	100	109	P	H
		5459.92	48.98	-5.02	54	39.62	31.74	10.24	32.62	100	109	A	H
	*	5510	113.28	-	-	103.67	31.88	10.32	32.59	100	109	P	H
802.11n	*	5510	104.72	-	-	95.11	31.88	10.32	32.59	100	109	A	H
HT40		5755.55	53.86	-14.34	68.2	43.62	32.21	10.55	32.52	100	109	P	H
CH 102		5451.76	61.81	-12.19	74	52.49	31.71	10.23	32.62	115	264	P	V
5510MHz		5468.32	64.32	-3.88	68.2	54.9	31.77	10.26	32.61	115	264	P	V
		5459.92	48.63	-5.37	54	39.27	31.74	10.24	32.62	115	264	A	V
	*	5510	107.13	-	-	97.52	31.88	10.32	32.59	115	264	P	V
	*	5510	99.83	-	-	90.22	31.88	10.32	32.59	115	264	A	V
		5750.825	51.64	-16.56	68.2	41.42	32.2	10.54	32.52	115	264	P	V
		5453.2	56.54	-17.46	74	47.22	31.71	10.23	32.62	100	113	P	H
		5461.84	57.28	-10.92	68.2	47.89	31.75	10.25	32.61	100	113	P	H
		5458.96	45.34	-8.66	54	35.98	31.74	10.24	32.62	100	113	A	H
	*	5550	114.73	-	-	105.13	31.8	10.38	32.58	100	113	P	H
802.11n	*	5550	107.13	-	-	97.53	31.8	10.38	32.58	100	113	A	H
HT40		5727.2	53.76	-14.44	68.2	43.61	32.15	10.53	32.53	100	113	P	H
CH 110		5455.36	52.07	-21.93	74	42.73	31.72	10.24	32.62	100	265	P	V
5550MHz		5465.92	53.92	-14.28	68.2	44.52	31.76	10.25	32.61	100	265	P	V
		5459.92	42.97	-11.03	54	33.61	31.74	10.24	32.62	100	265	A	V
	*	5550	110.47	-	-	100.87	31.8	10.38	32.58	100	265	P	V
	*	5550	102.38	-	-	92.78	31.8	10.38	32.58	100	265	A	V
		5735.075	51.98	-16.22	68.2	41.8	32.17	10.53	32.52	100	265	P	V

		5459.55	50.71	-23.29	74	41.35	31.74	10.24	32.62	100	113	P	H
		5463.75	50.83	-17.37	68.2	41.43	31.76	10.25	32.61	100	113	P	H
		5452.9	42.78	-11.22	54	33.46	31.71	10.23	32.62	100	113	A	H
	*	5670	115.11	-	-	105.23	31.92	10.5	32.54	100	113	P	H
802.11n	*	5670	107.19	-	-	97.31	31.92	10.5	32.54	100	113	A	H
HT40		5727.2	64.87	-3.33	68.2	54.72	32.15	10.53	32.53	100	113	P	H
CH 134		5428.05	49.52	-24.48	74	40.31	31.66	10.19	32.64	100	260	P	V
5670MHz		5466.9	50.1	-18.1	68.2	40.69	31.77	10.25	32.61	100	260	P	V
		5450.45	41.21	-12.79	54	31.9	31.7	10.23	32.62	100	260	A	V
	*	5670	112.02	-	-	102.14	31.92	10.5	32.54	100	260	P	V
	*	5670	104.2	-	-	94.32	31.92	10.5	32.54	100	260	A	V
		5728.95	64.58	-3.62	68.2	54.42	32.16	10.53	32.53	100	260	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+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11010	46.47	-27.53	74	51.23	39.96	16.77	61.49	100	0	P	H
		16530	47.21	-20.99	68.2	48.44	38.52	21.23	60.98	100	0	P	H
802.11n													H
HT40													H
CH 102		11010	46.25	-27.75	74	51.01	39.96	16.77	61.49	100	0	P	V
5510MHz		16530	47.55	-20.65	68.2	48.78	38.52	21.23	60.98	100	0	P	V
													V
													V
		11100	45.37	-28.63	74	50.25	39.6	16.91	61.39	100	0	P	H
		16650	48.38	-19.82	68.2	48.79	38.95	21.39	60.75	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	45.79	-28.21	74	50.67	39.6	16.91	61.39	100	0	P	V
5550MHz		16650	48.35	-19.85	68.2	48.76	38.95	21.39	60.75	100	0	P	V
													V
													V
		11340	47.37	-26.63	74	51.71	39.52	17.26	61.12	100	0	P	H
		17010	48.92	-19.28	68.2	47.44	39.7	21.87	60.09	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	47.13	-26.87	74	51.47	39.52	17.26	61.12	100	0	P	V
5670MHz		17010	48.81	-19.39	68.2	47.33	39.7	21.87	60.09	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.72	56.45	-17.55	74	47.1	31.73	10.24	32.62	261	111	P	H
		5470	58.84	-9.36	68.2	49.41	31.78	10.26	32.61	261	111	P	H
		5459.68	49.63	-4.37	54	40.27	31.74	10.24	32.62	261	111	A	H
	*	5530	105.18	-	-	95.57	31.84	10.35	32.58	261	111	P	H
802.11ac	*	5530	97.08	-	-	87.47	31.84	10.35	32.58	261	111	A	H
VHT80		5744.525	51.44	-16.76	68.2	41.23	32.19	10.54	32.52	261	111	P	H
CH 106		5458.96	56.12	-17.88	74	46.76	31.74	10.24	32.62	115	264	P	V
5530MHz		5461.12	56.43	-11.77	68.2	47.06	31.74	10.24	32.61	115	264	P	V
		5459.68	48.1	-5.9	54	38.74	31.74	10.24	32.62	115	264	A	V
	*	5530	104.1	-	-	94.49	31.84	10.35	32.58	115	264	P	V
	*	5530	95.91	-	-	86.3	31.84	10.35	32.58	115	264	A	V
		5740.115	51.8	-16.4	68.2	41.6	32.18	10.54	32.52	115	264	P	V
		5458.85	55.56	-18.44	74	46.2	31.74	10.24	32.62	244	115	P	H
		5467.6	56.34	-11.86	68.2	46.93	31.77	10.25	32.61	244	115	P	H
		5459.9	46.56	-7.44	54	37.2	31.74	10.24	32.62	244	115	A	H
	*	5610	110.96	-	-	101.17	31.88	10.47	32.56	244	115	P	H
802.11ac	*	5610	102.81	-	-	93.02	31.88	10.47	32.56	244	115	A	H
VHT80		5726.675	55.46	-12.74	68.2	45.31	32.15	10.53	32.53	244	115	P	H
CH 122		5452.55	53.3	-20.7	74	43.98	31.71	10.23	32.62	100	264	P	V
5610MHz		5467.25	55.92	-12.28	68.2	46.51	31.77	10.25	32.61	100	264	P	V
		5448.35	45.14	-8.86	54	35.84	31.7	10.22	32.62	100	264	A	V
	*	5610	108.46	-	-	98.67	31.88	10.47	32.56	100	264	P	V
	*	5610	100.83	-	-	91.04	31.88	10.47	32.56	100	264	A	V
		5731.75	61.29	-6.91	68.2	51.13	32.16	10.53	32.53	100	264	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	46.04	-27.96	74	50.86	39.76	16.85	61.43	100	0	P	H
		16590	47.57	-20.63	68.2	48.38	38.76	21.31	60.88	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	47.61	-26.39	74	52.43	39.76	16.85	61.43	100	0	P	V
5530MHz		16590	46.9	-21.3	68.2	47.71	38.76	21.31	60.88	100	0	P	V
													V
													V
		11220	47.95	-26.05	74	52.73	39.4	17.08	61.26	100	0	P	H
		16830	48.64	-19.56	68.2	47.59	39.83	21.63	60.41	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	47.26	-26.74	74	52.04	39.4	17.08	61.26	100	0	P	V
5610MHz		16830	49.12	-19.08	68.2	48.07	39.83	21.63	60.41	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		5357.02	54.04	-19.96	74	45.24	31.34	10.14	32.68	100	116	P	H
		5464.66	51.22	-16.98	68.2	41.82	31.76	10.25	32.61	100	116	P	H
		5452.96	42.8	-11.2	54	33.48	31.71	10.23	32.62	100	116	A	H
	*	5720	118.8	-	-	108.66	32.14	10.53	32.53	100	116	P	H
	*	5720	111.12	-	-	100.98	32.14	10.53	32.53	100	116	A	H
		5865.25	55.45	-12.75	68.2	44.91	32.43	10.6	32.49	100	116	P	H
		5424.1	51.63	-22.37	74	42.43	31.65	10.19	32.64	118	258	P	V
		5466.22	50.71	-17.49	68.2	41.31	31.76	10.25	32.61	118	258	P	V
		5447.11	40.77	-13.23	54	31.48	31.69	10.22	32.62	118	258	A	V
	*	5720	115.35	-	-	105.21	32.14	10.53	32.53	118	258	P	V
	*	5720	107.69	-	-	97.55	32.14	10.53	32.53	118	258	A	V
		5856.5	53.87	-14.33	68.2	43.36	32.41	10.59	32.49	118	258	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	47.89	-26.11	74	51.84	39.66	17.4	61.01	100	0	P	H
		17160	48.73	-19.47	68.2	46.96	40	22	60.23	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	48.22	-25.78	74	52.17	39.66	17.4	61.01	100	0	P	V
5720MHz		17160	48.11	-20.09	68.2	46.34	40	22	60.23	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		5361.31	50.91	-23.09	74	42.08	31.37	10.14	32.68	100	116	P	H
		5461.15	49.34	-18.86	68.2	39.97	31.74	10.24	32.61	100	116	P	H
		5452.57	43.3	-10.7	54	33.98	31.71	10.23	32.62	100	116	A	H
	*	5710	115.58	-	-	105.47	32.12	10.52	32.53	100	116	P	H
	*	5710	108	-	-	97.89	32.12	10.52	32.53	100	116	A	H
		5861	53.9	-14.3	68.2	43.38	32.42	10.59	32.49	100	116	P	H
		5459.2	49	-25	74	39.64	31.74	10.24	32.62	112	267	P	V
		5463.49	48.52	-19.68	68.2	39.13	31.75	10.25	32.61	112	267	P	V
		5456.47	41.11	-12.89	54	31.76	31.73	10.24	32.62	112	267	A	V
	*	5710	112.99	-	-	102.88	32.12	10.52	32.53	112	267	P	V
	*	5710	104.51	-	-	94.4	32.12	10.52	32.53	112	267	A	V
		5857.75	52.85	-15.35	68.2	42.33	32.42	10.59	32.49	112	267	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	47.41	-26.59	74	51.39	39.68	17.37	61.03	100	0	P	H
		17130	48.12	-20.08	68.2	46.5	39.85	21.97	60.2	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	46.79	-27.21	74	50.77	39.68	17.37	61.03	100	0	P	V
5710MHz		17130	47.99	-20.21	68.2	46.37	39.85	21.97	60.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		5458.81	50.55	-23.45	74	41.19	31.74	10.24	32.62	100	117	P	H
		5470	50.94	-17.26	68.2	41.51	31.78	10.26	32.61	100	117	P	H
		5452.57	43.16	-10.84	54	33.84	31.71	10.23	32.62	100	117	A	H
	*	5690	112.52	-	-	102.51	32.04	10.51	32.54	100	117	P	H
	*	5690	104.82	-	-	94.81	32.04	10.51	32.54	100	117	A	H
		5858.5	55.72	-12.48	68.2	45.2	32.42	10.59	32.49	100	117	P	H
		5406.94	50.27	-23.73	74	41.15	31.61	10.16	32.65	100	260	P	V
		5464.66	50.7	-17.5	68.2	41.3	31.76	10.25	32.61	100	260	P	V
		5458.81	41.25	-12.75	54	31.89	31.74	10.24	32.62	100	260	A	V
	*	5690	109.24	-	-	99.23	32.04	10.51	32.54	100	260	P	V
	*	5690	101.32	-	-	91.31	32.04	10.51	32.54	100	260	A	V
		5852.5	53.39	-14.81	68.2	42.88	32.41	10.59	32.49	100	260	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+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	47.43	-26.57	74	51.55	39.64	17.31	61.07	100	0	P	H
		17070	48.99	-19.21	68.2	47.5	39.7	21.92	60.13	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	47.54	-26.46	74	51.66	39.64	17.31	61.07	100	0	P	V
5690MHz		17070	49.68	-18.52	68.2	48.19	39.7	21.92	60.13	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI Band2 802.11n HT40 (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+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		40.67	21.64	-18.36	40	34.41	18.85	0.86	32.48	-	-	P	H
		62.98	19.63	-20.37	40	39.52	11.52	1.09	32.5	-	-	P	H
		97.9	19.84	-23.66	43.5	35.33	15.55	1.35	32.39	-	-	P	H
		886.51	31.82	-14.18	46	30.45	28.98	4.18	31.79	-	-	P	H
		915.61	33.08	-12.92	46	31.45	28.9	4.25	31.52	-	-	P	H
		955.38	33.29	-12.71	46	29.56	30.38	4.35	31	100	0	P	H
													H
													H
													H
													H
													H
													H
		40.67	32.16	-7.84	40	44.93	18.85	0.86	32.48	100	0	P	V
		54.25	28.05	-11.95	40	47.22	12.36	1	32.53	-	-	P	V
		69.77	30.03	-9.97	40	49.31	12.04	1.16	32.48	-	-	P	V
		906.88	32.07	-13.93	46	30.67	28.82	4.22	31.64	-	-	P	V
		943.74	32.5	-13.5	46	29.58	29.74	4.33	31.15	-	-	P	V
		960.23	33.94	-20.06	54	29.8	30.7	4.37	30.93	-	-	P	V
													V
													V
													V
													V
													V
													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+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

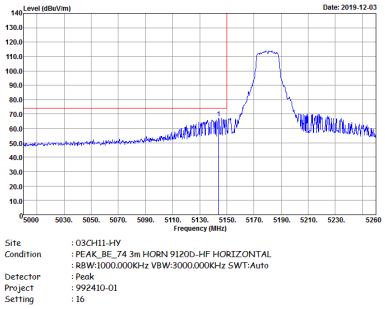
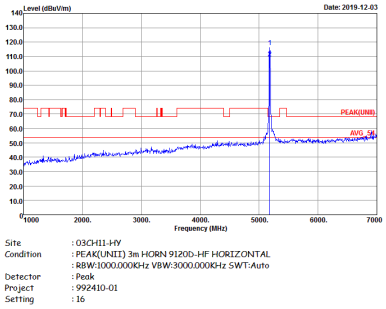
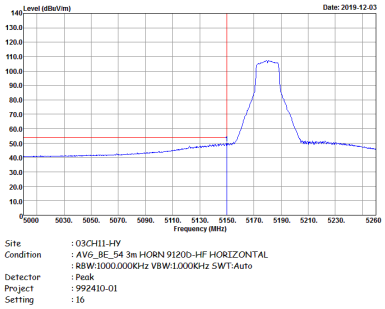
Test Engineer :	Cookie Ku, Fu Chen, Troye Hsieh	**Temperature :**	18.1 ~ 26.1°C
		Relative Humidity :	37.2 ~ 68.2%

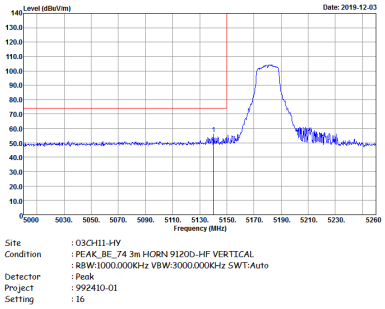
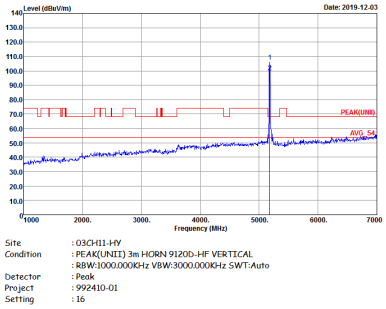
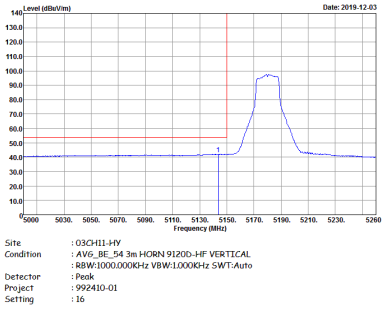
Note symbol

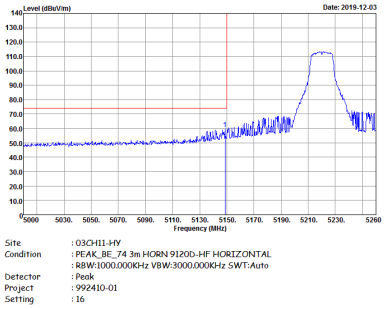
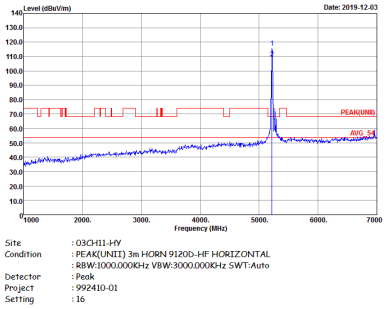
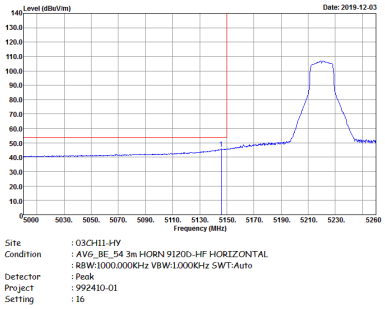
-L	**Low channel location**
-R	**High channel location**

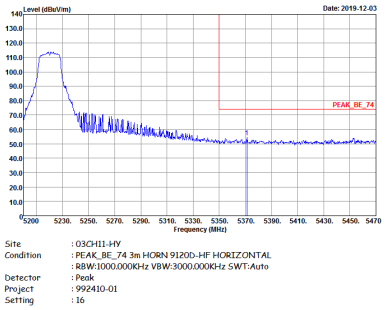
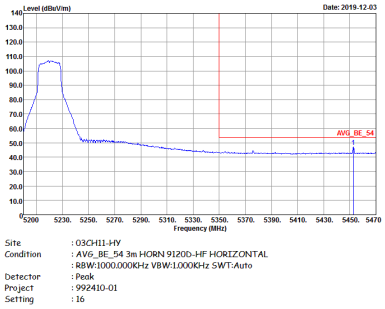
Band 1 - 5150~5250MHz

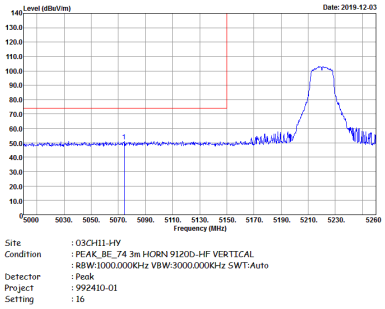
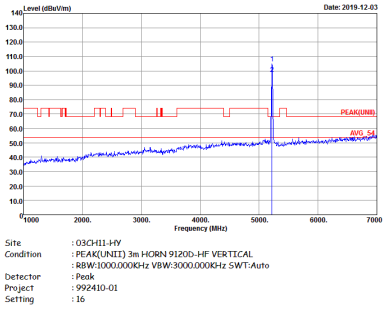
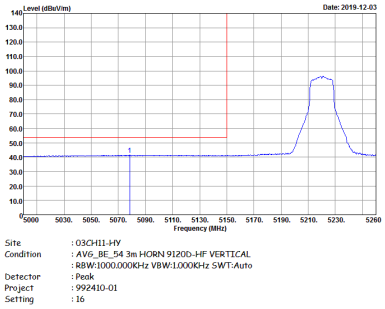
WIFI 802.11a (Band Edge @ 3m)

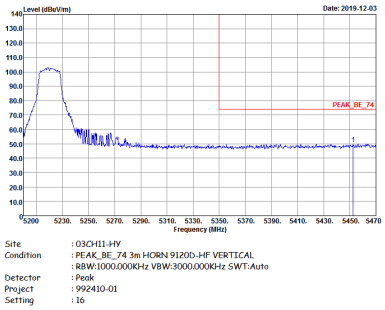
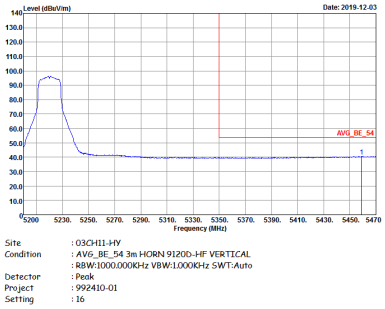
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

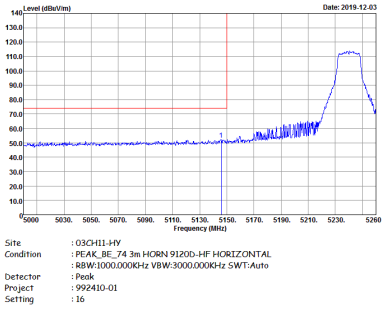
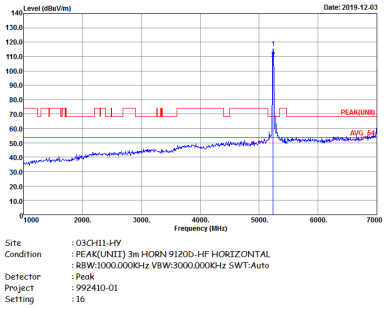
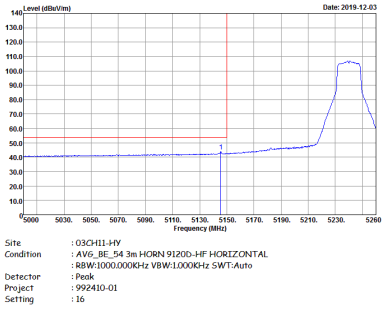
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

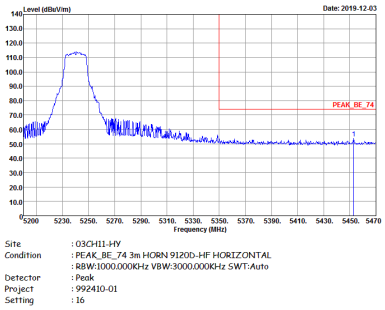
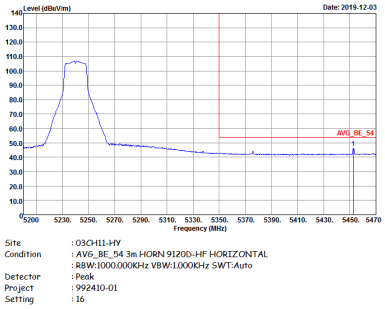
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

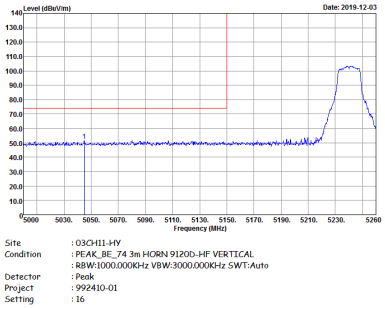
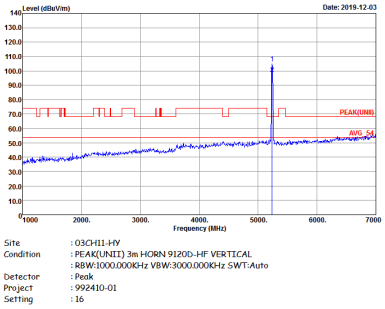
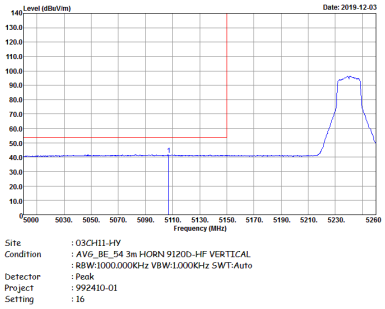
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

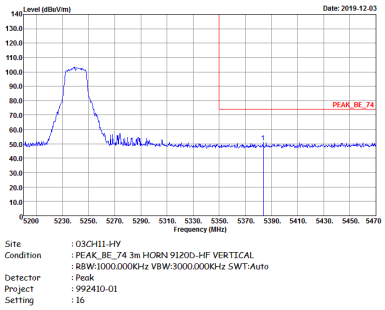
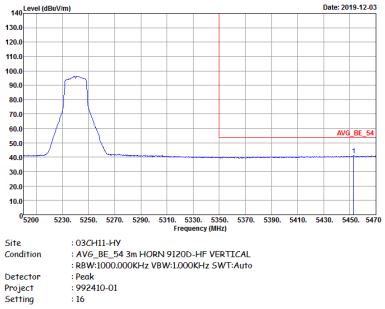
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

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

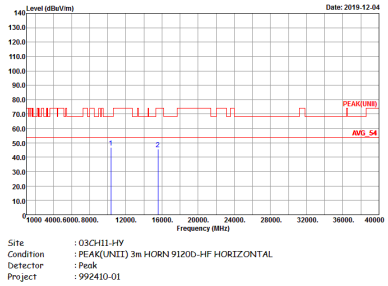
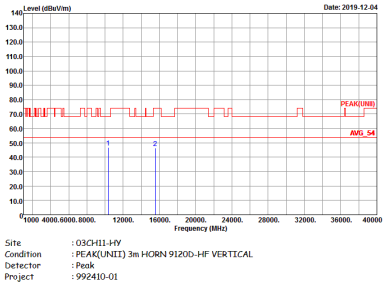
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

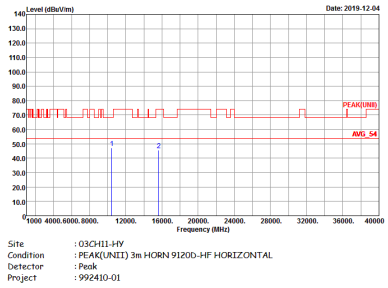
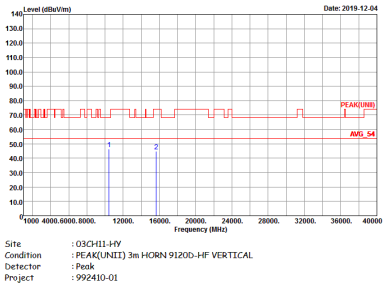
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

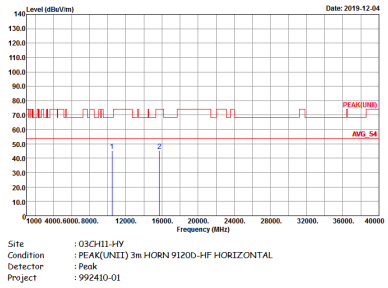
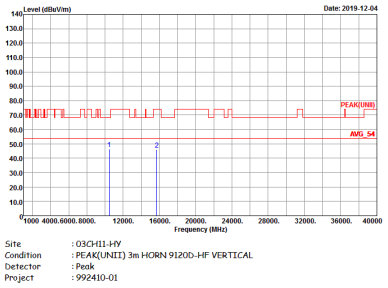
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

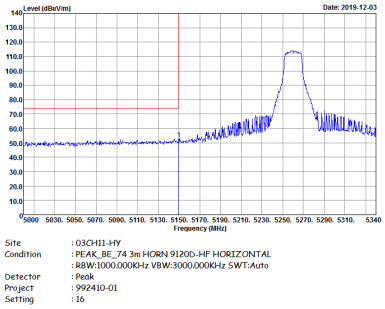
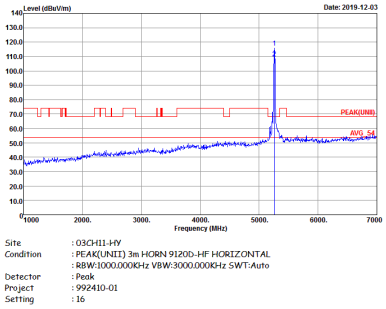
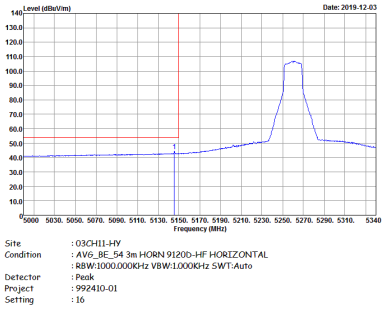
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
0	Horizontal	Vertical
Peak Avg.		

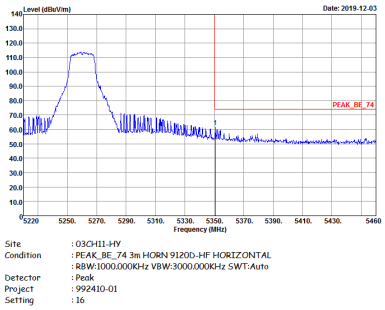
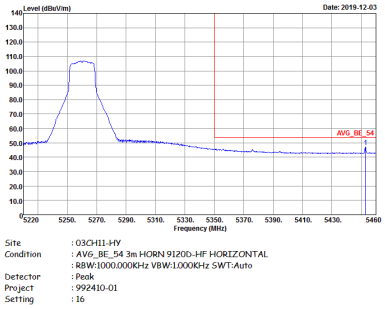
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
0	Horizontal	Vertical
Peak Avg.		

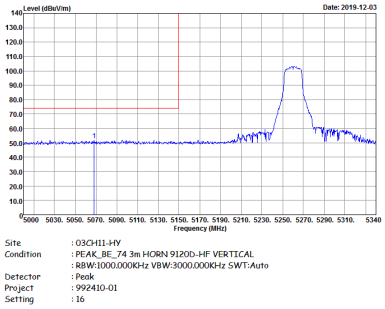
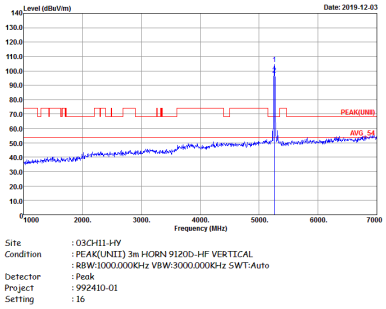
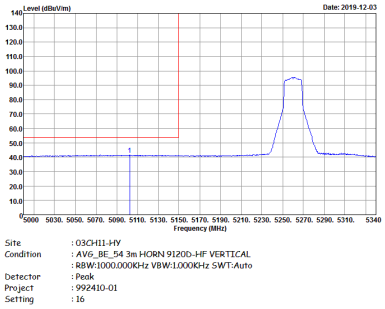
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
0	Horizontal	Vertical
Peak Avg.		

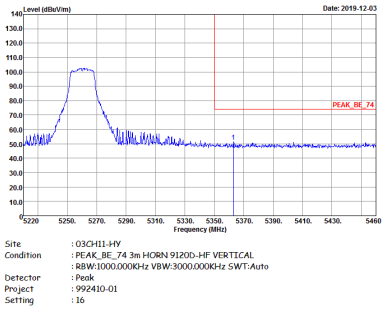
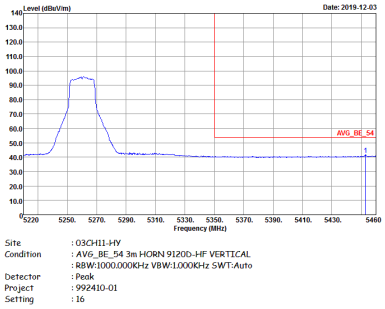
Band 2 - 5250~5350MHz

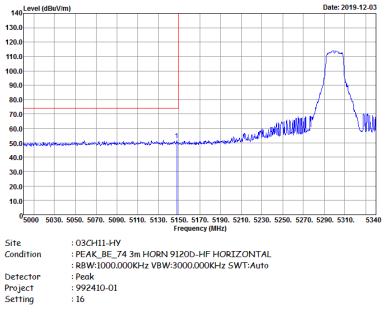
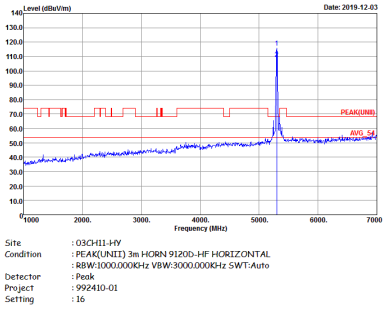
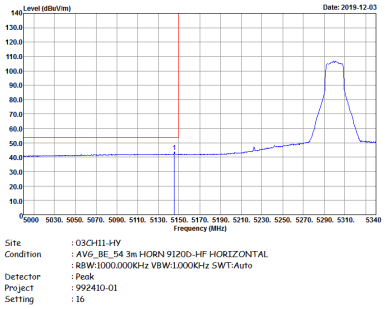
WIFI 802.11a (Band Edge @ 3m)

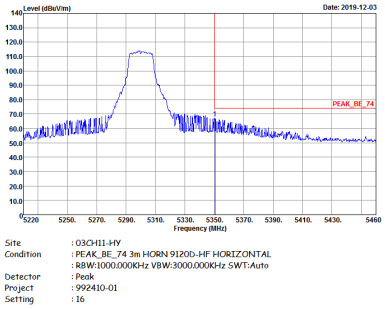
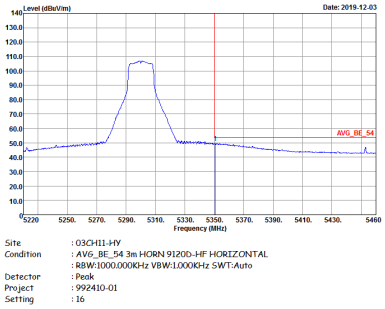
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

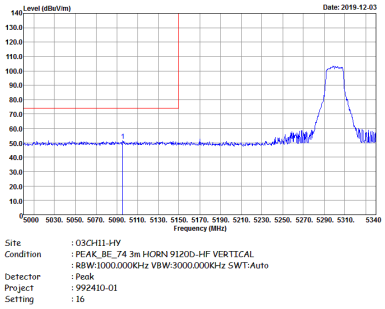
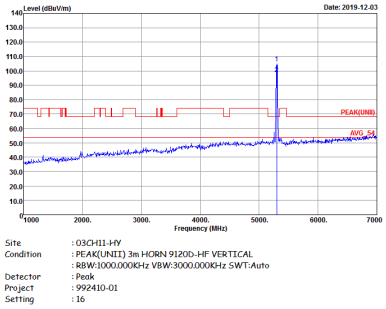
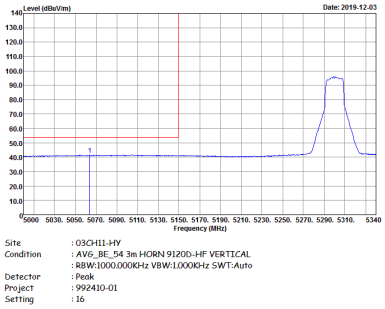
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

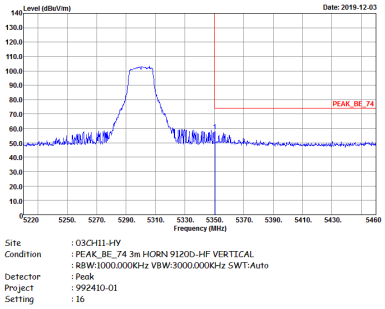
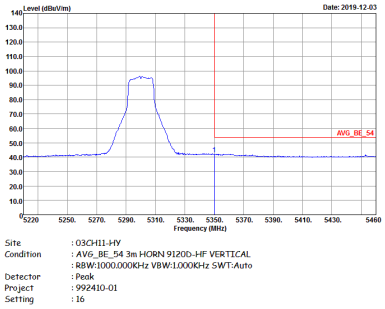
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

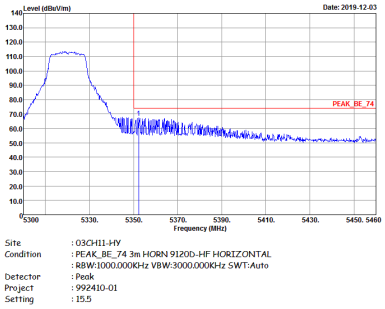
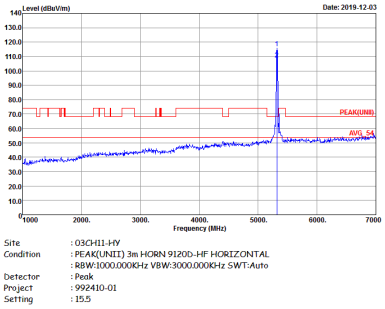
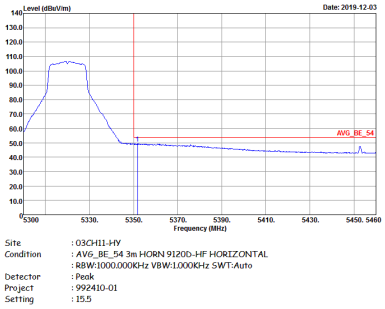
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

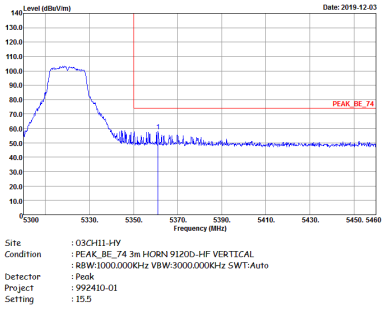
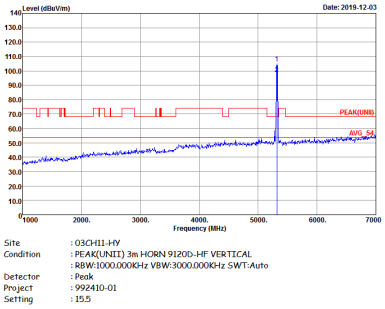
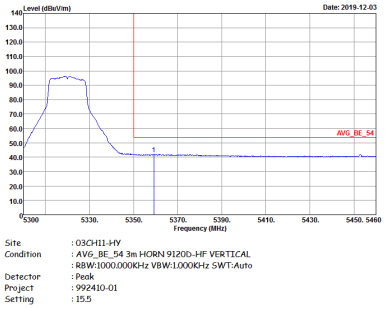
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

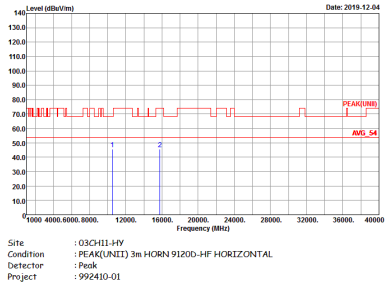
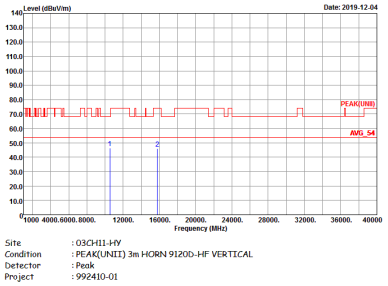
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

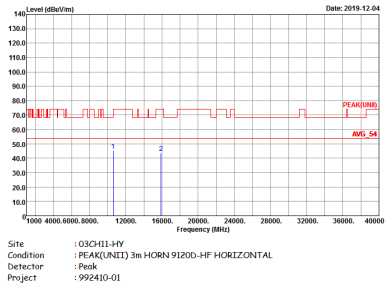
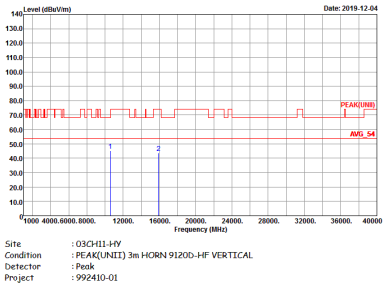
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

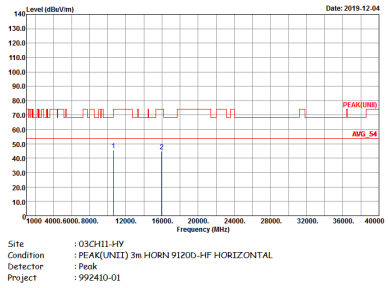
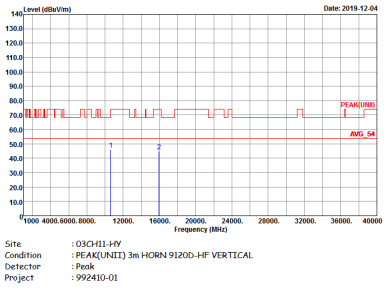
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

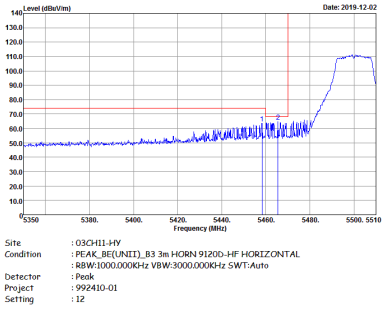
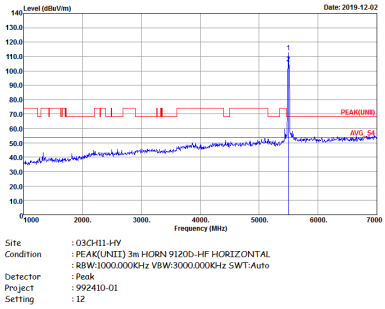
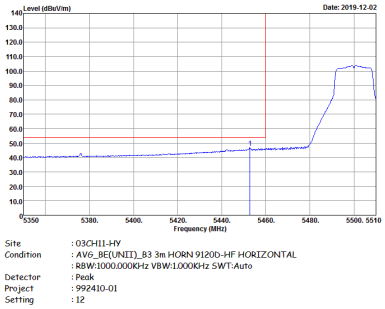
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
0	Horizontal	Vertical
Peak Avg.		

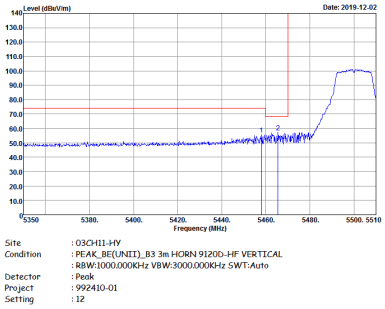
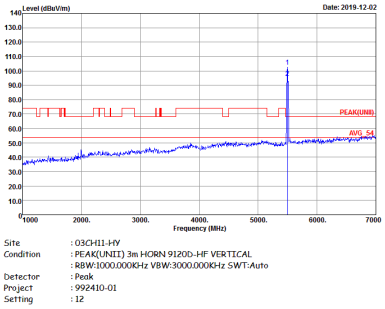
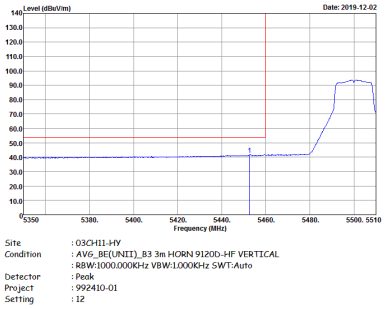
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
0	Horizontal	Vertical
Peak Avg.		

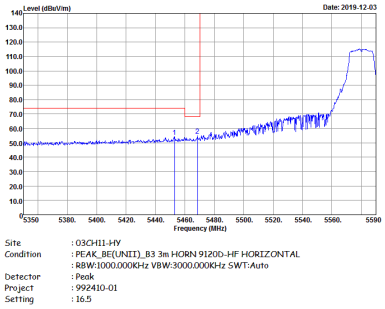
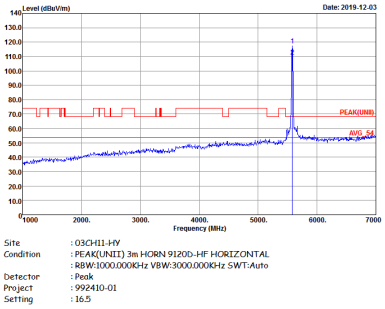
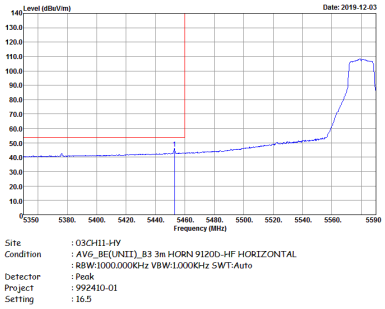
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
0	Horizontal	Vertical
Peak Avg.		

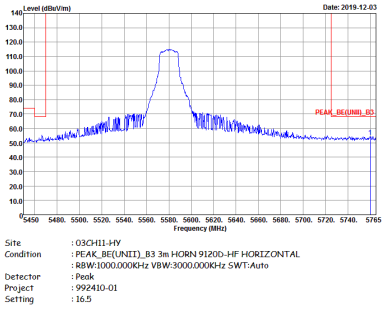
Band 3 - 5470~5725MHz

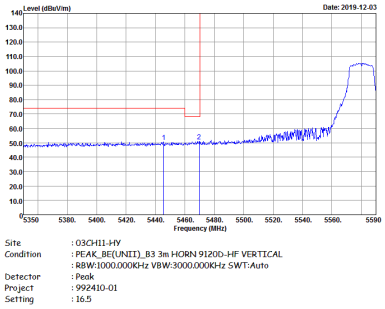
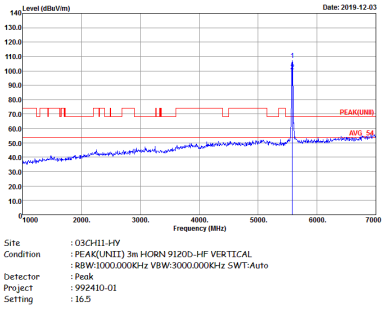
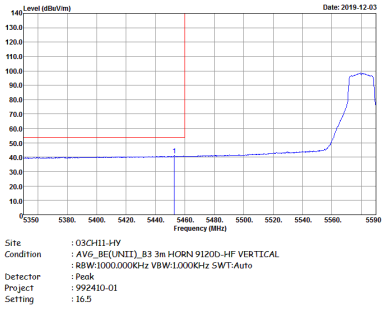
WIFI 802.11a (Band Edge @ 3m)

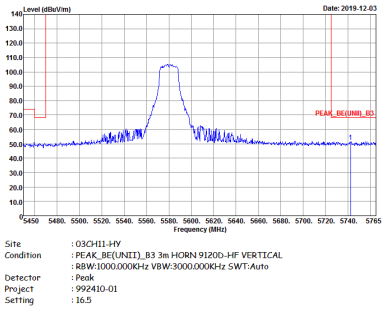
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

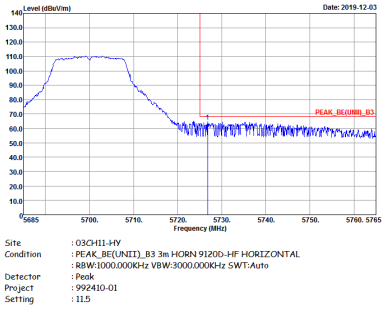
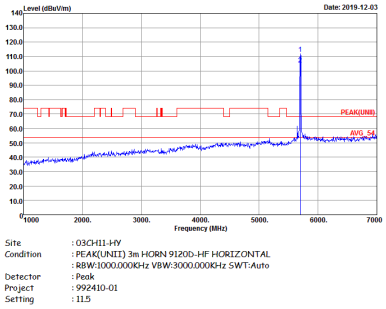
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

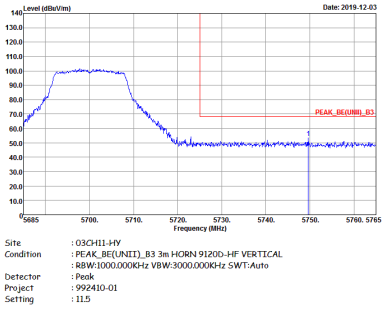
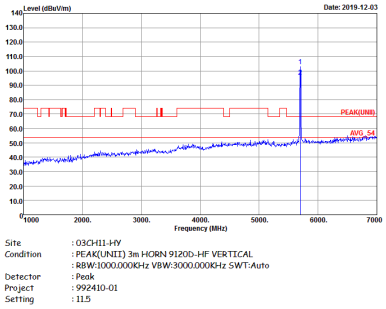
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
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 : 992410-01 Setting : 16.5	Left blank

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

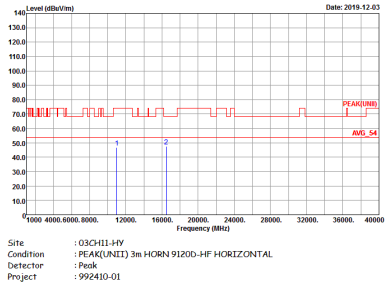
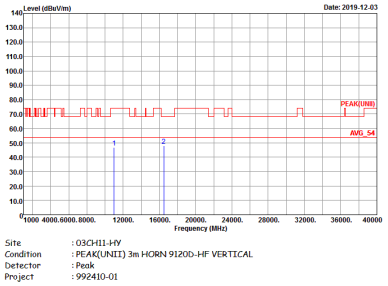
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
0	Vertical	Fundamental
Peak		Left blank

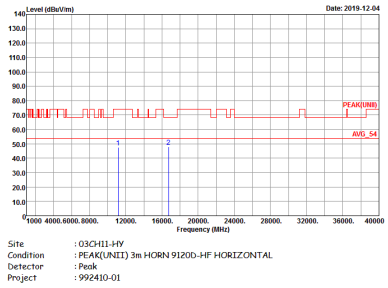
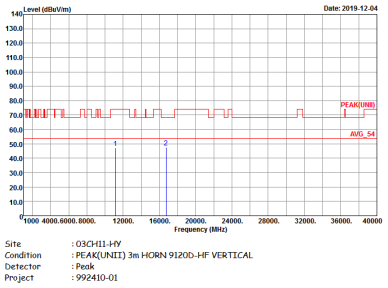
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
0	Horizontal	Fundamental
Peak		

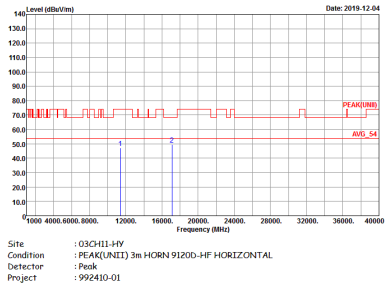
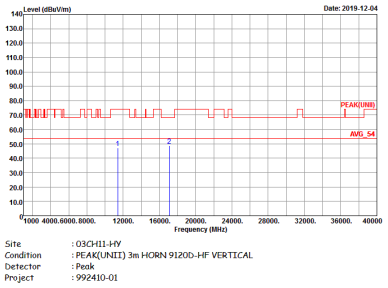
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
0	Vertical	Fundamental
Peak		

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
0	Horizontal	Vertical
Peak Avg.		

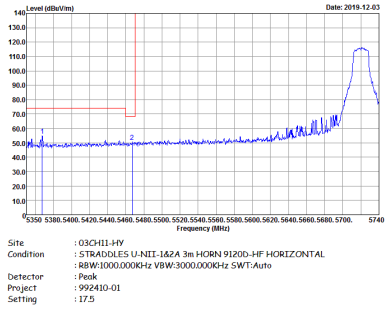
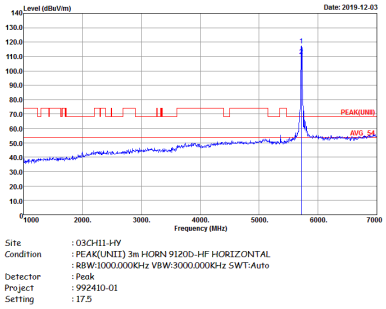
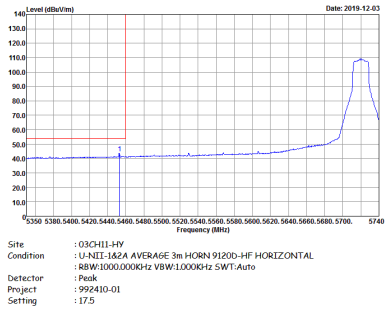
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
0	Horizontal	Vertical
Peak Avg.		

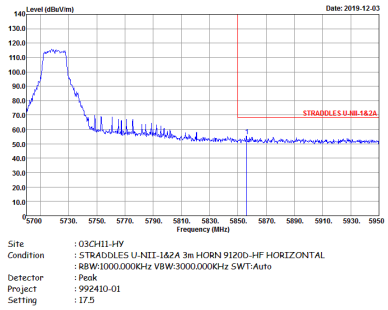
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
0	Horizontal	Vertical
Peak Avg.		

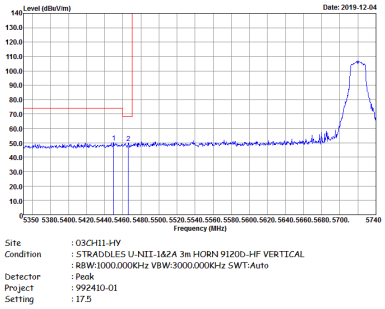
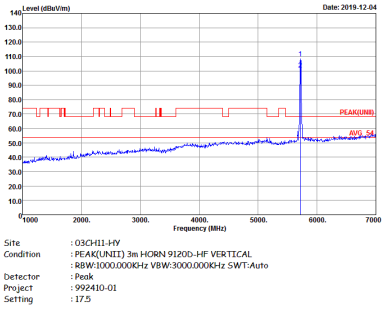
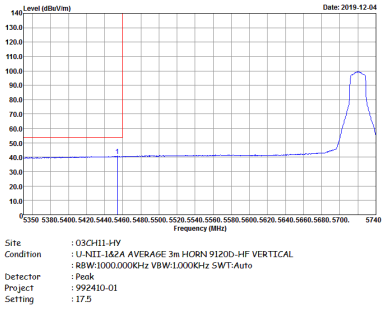
Band 3 5470~5725MHz

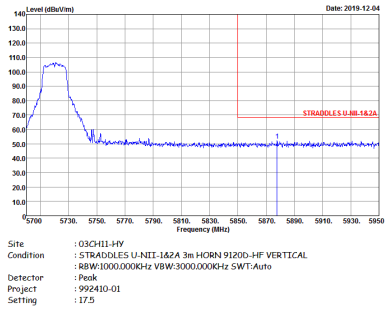
Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
0	Horizontal	Fundamental
Peak		
Avg.		Left blank

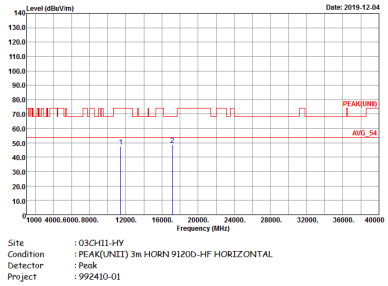
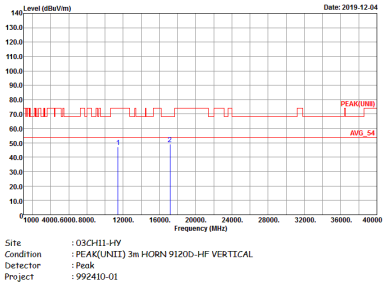
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
0	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
0	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
0	Vertical	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

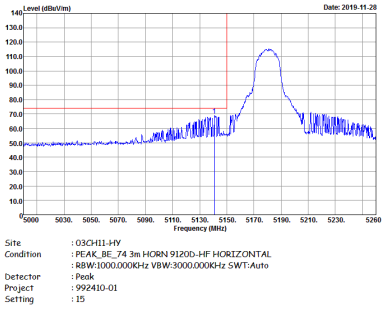
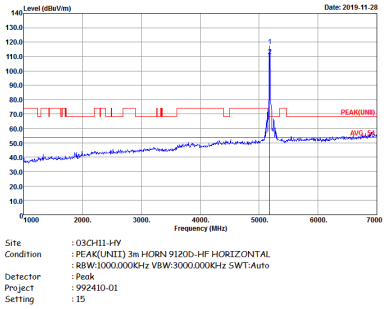
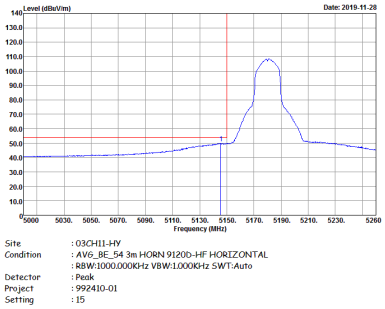
Band 3 - Straddle Channel

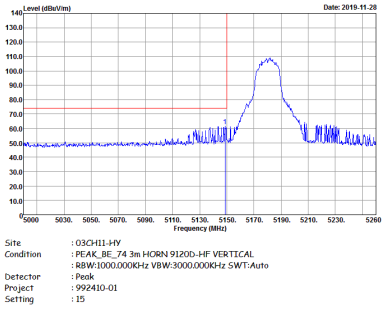
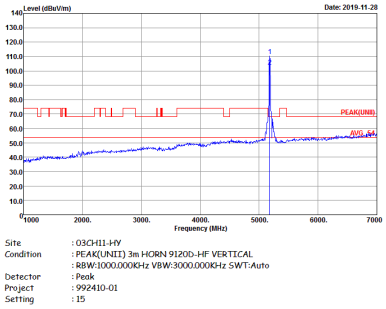
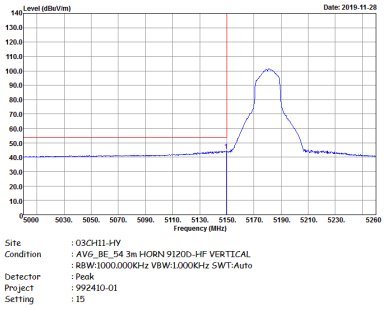
WIFI 802.11a (Harmonic @ 3m)

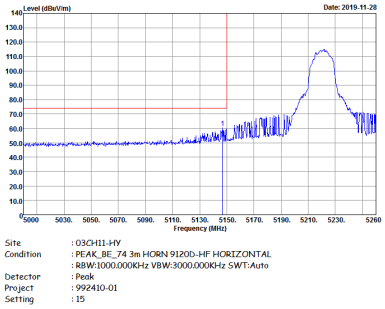
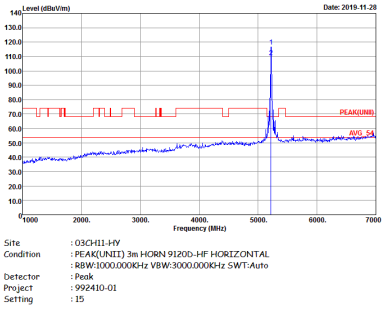
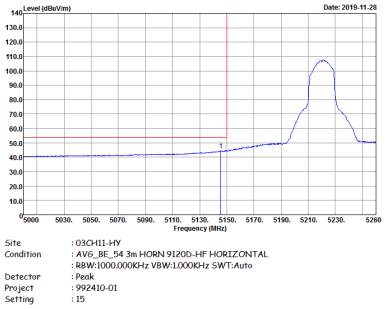
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
0	Horizontal	Vertical
Peak Avg.		

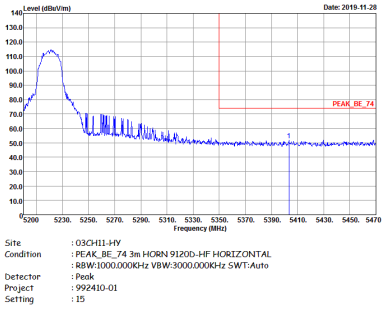
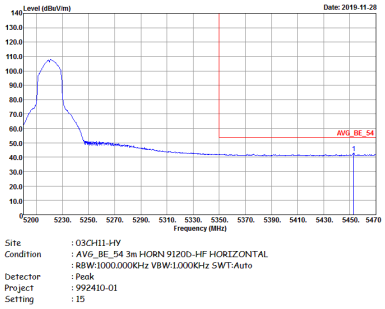
Band 1 - 5150~5250MHz

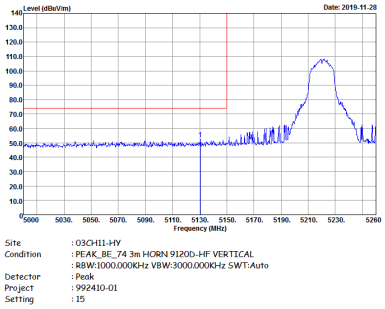
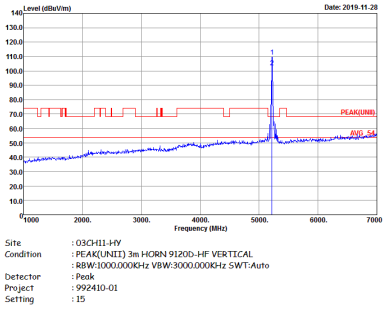
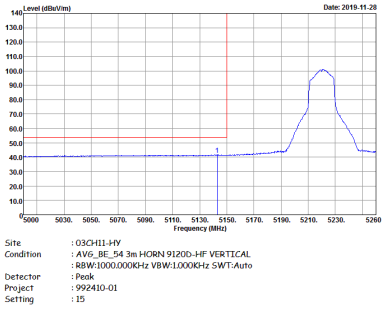
WIFI 802.11n HT20 (Band Edge @ 3m)

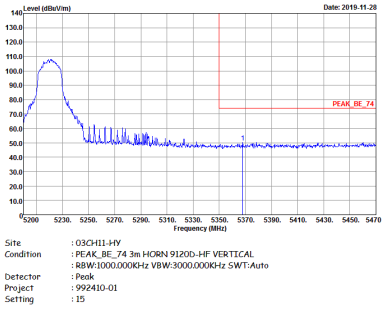
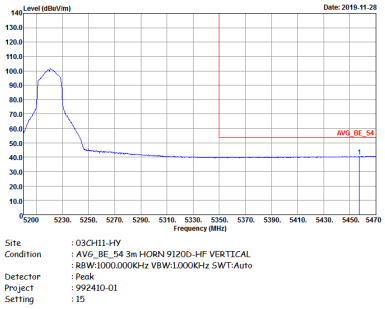
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

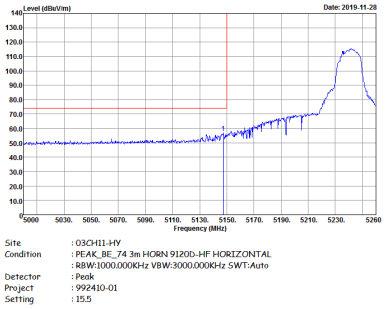
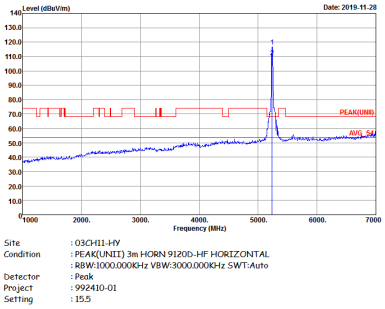
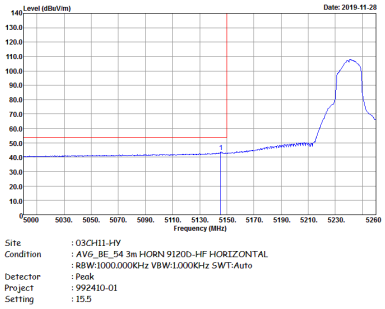
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

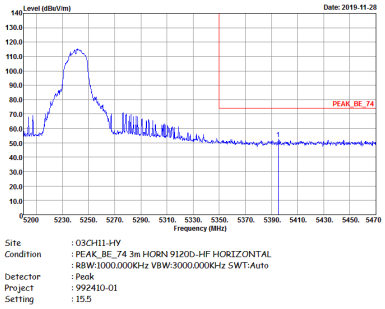
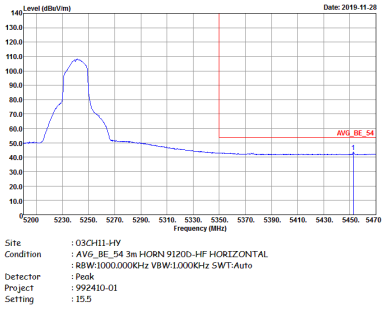
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

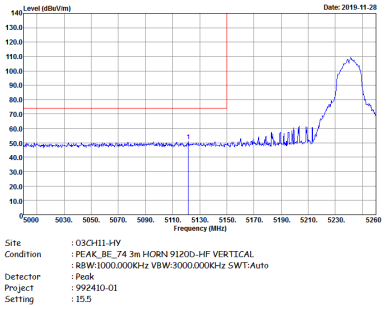
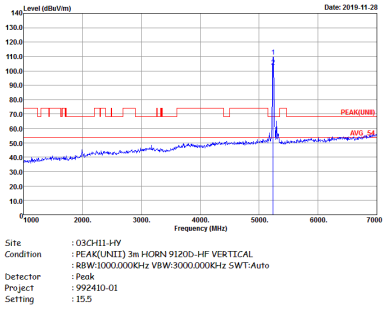
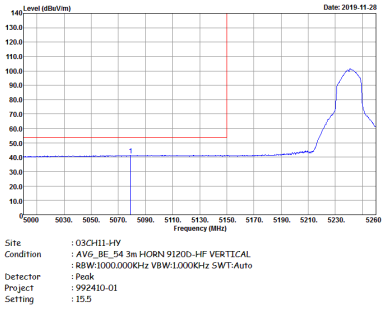
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

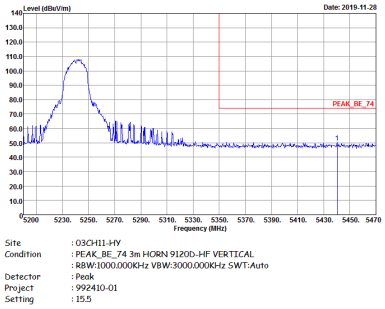
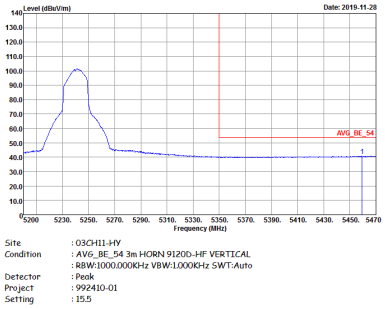
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

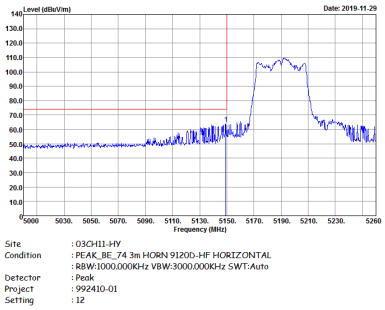
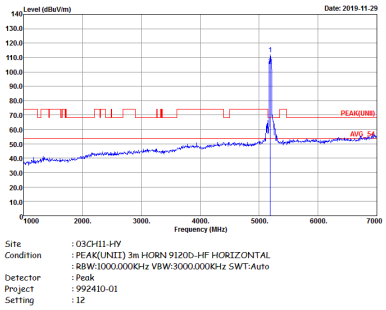
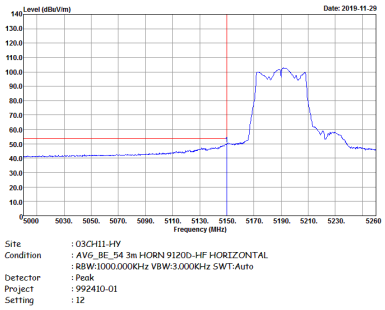
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

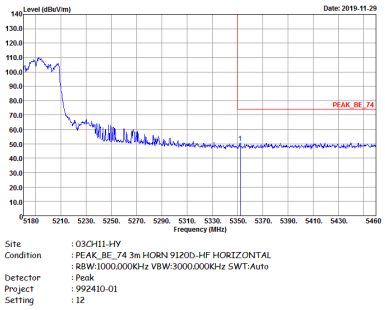
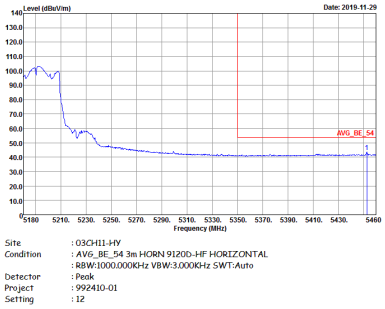
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

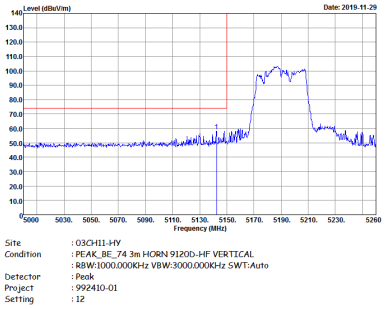
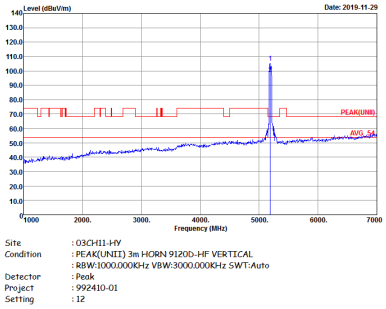
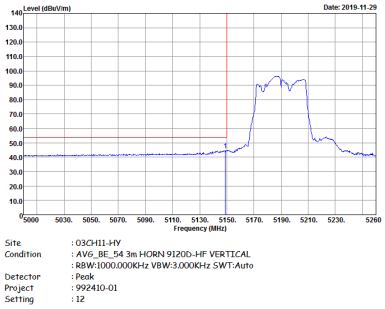
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

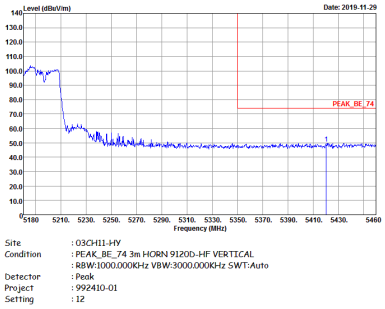
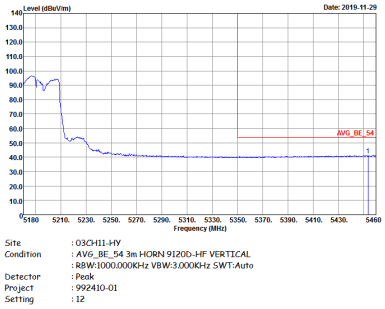
Band 1 5150~5250MHz

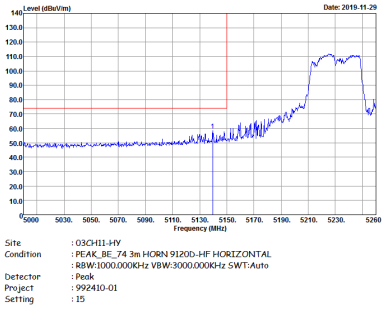
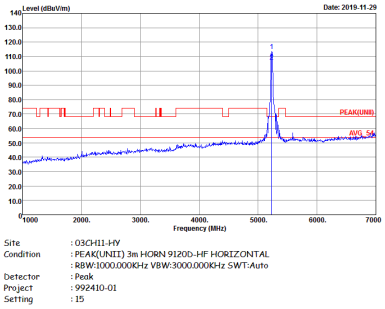
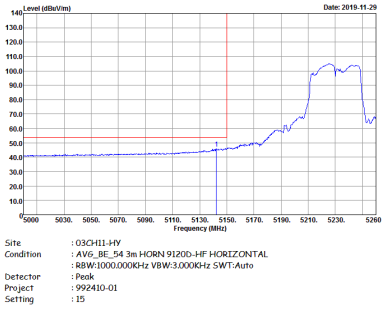
WIFI 802.11n HT40 (Band Edge @ 3m)

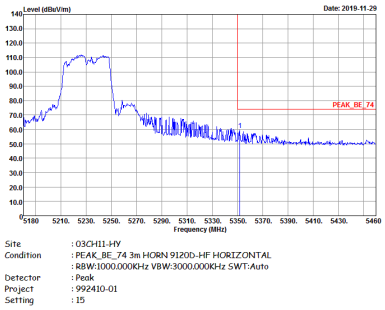
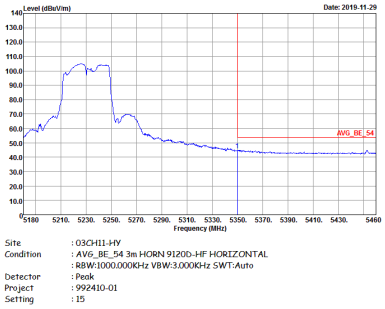
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

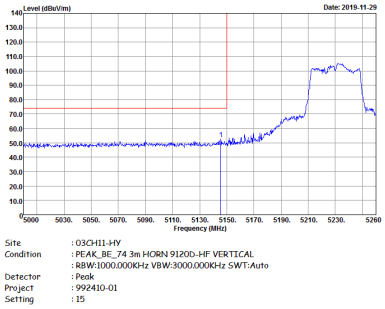
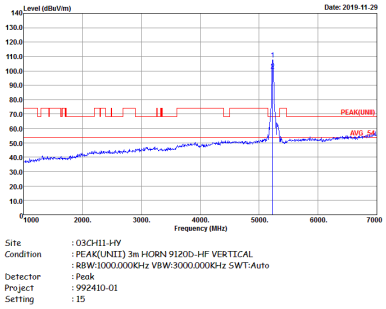
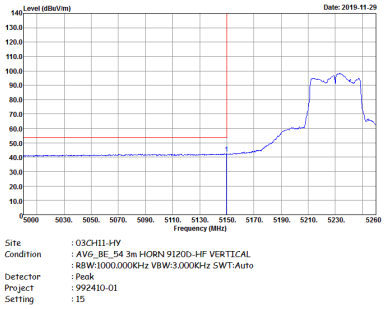
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

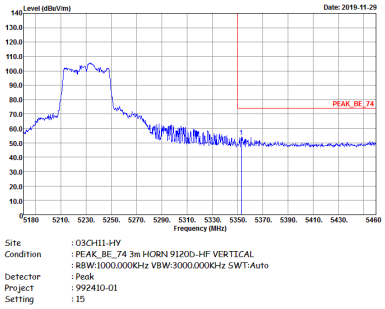
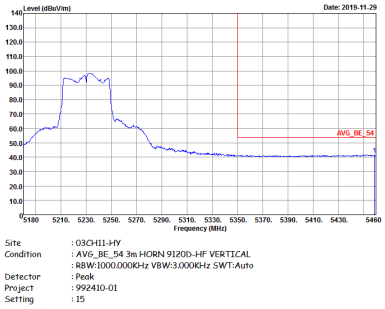
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

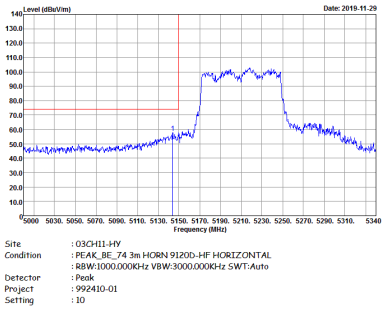
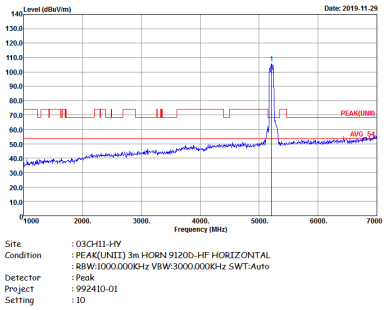
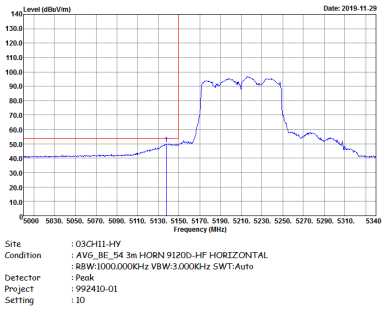
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

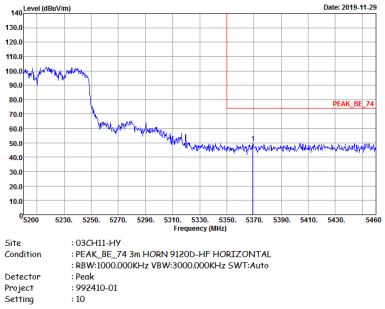
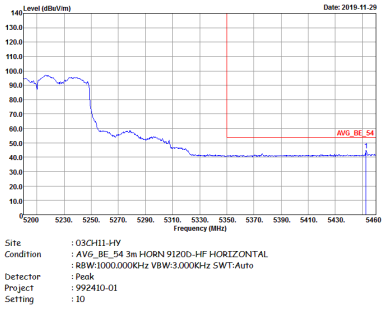
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

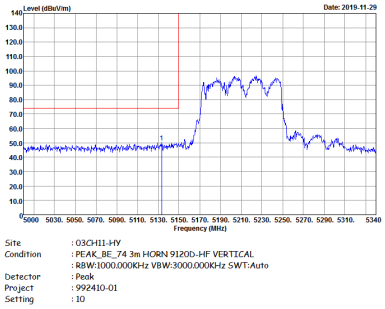
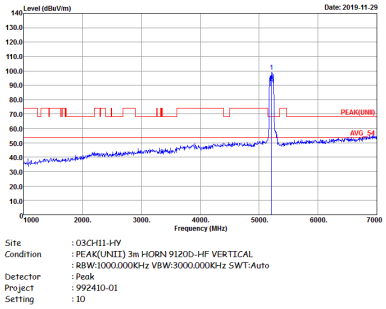
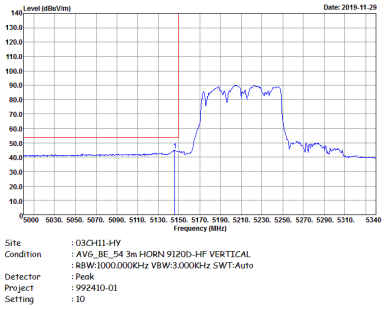
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

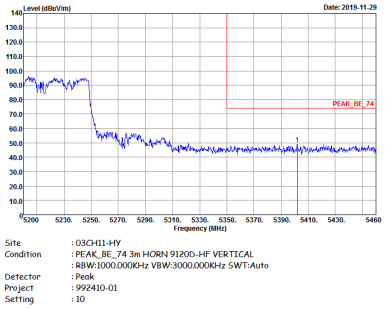
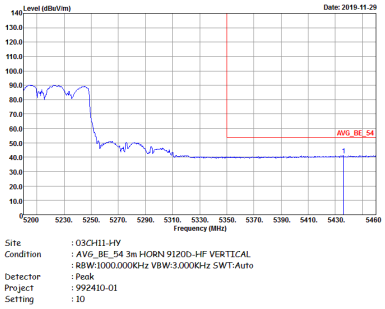
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

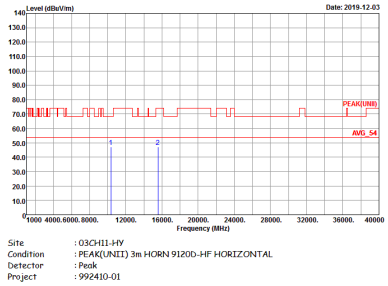
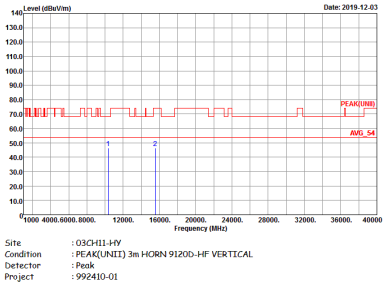
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

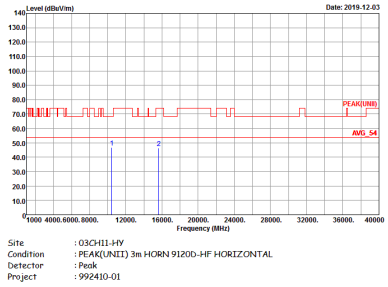
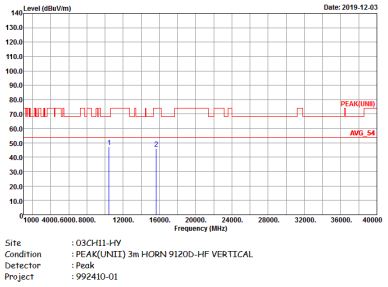
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

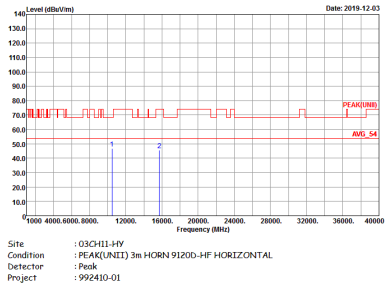
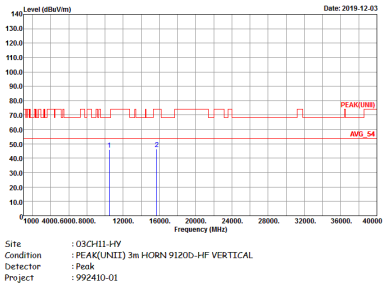
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

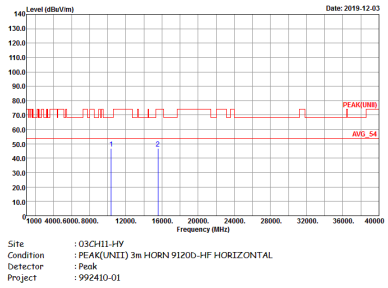
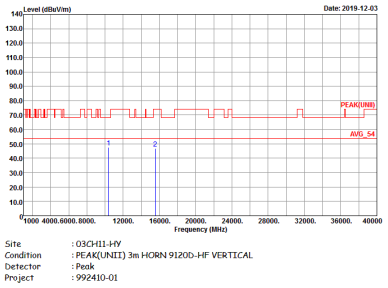
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Horizontal	Vertical
Peak Avg.		

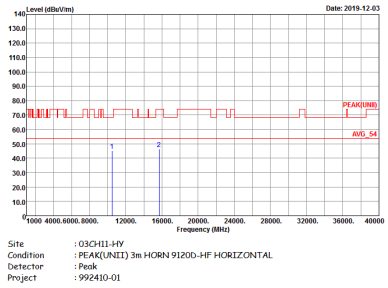
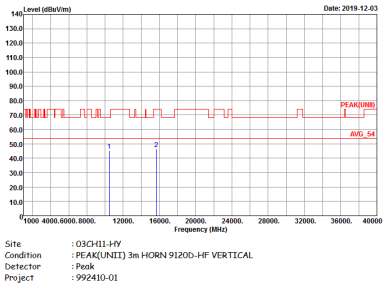
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
0+1	Horizontal	Vertical
Peak Avg.		

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

Band 1 5150~5250MHz

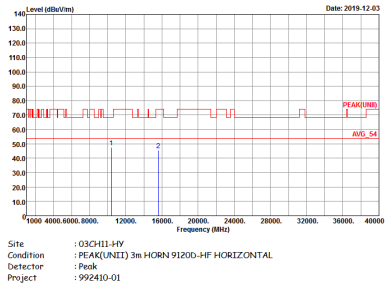
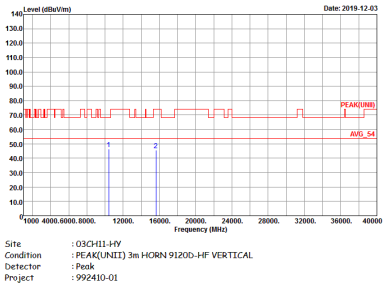
WIFI 802.11n HT40 (Harmonic @ 3m)

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

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

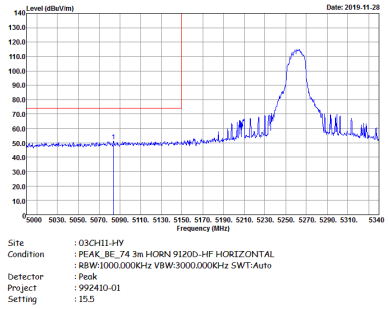
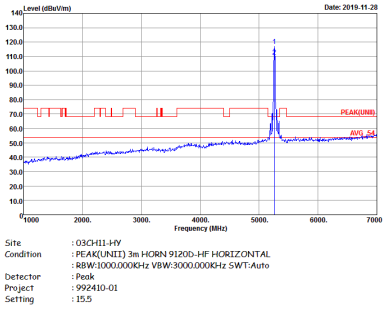
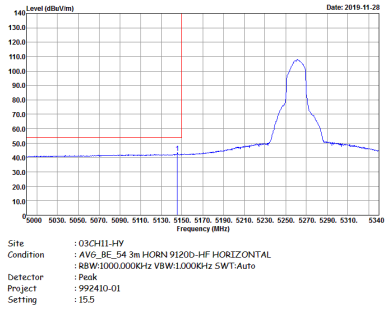
Band 1 5150~5250MHz

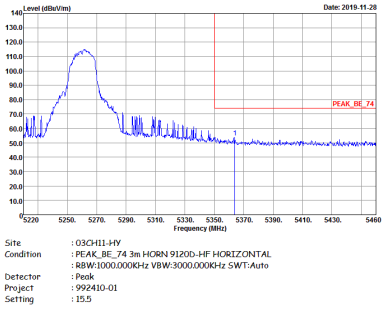
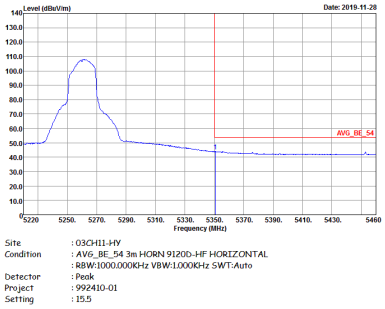
WIFI 802.11ac VHT80 (Harmonic @ 3m)

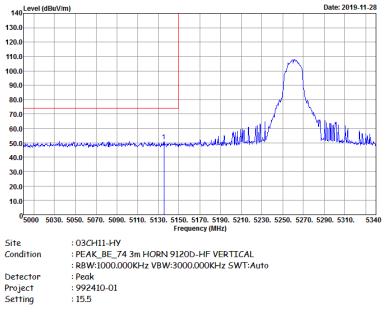
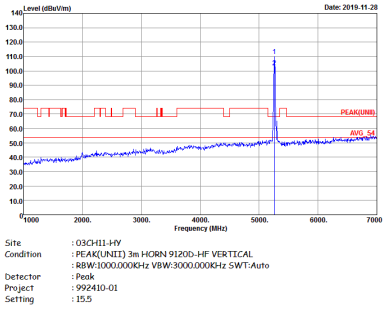
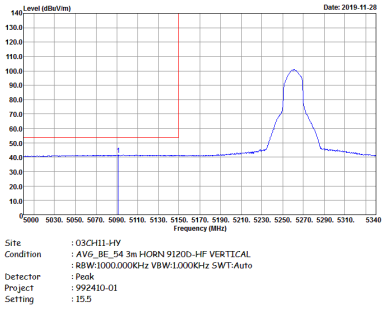
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
0+1	Horizontal	Vertical
Peak Avg.		

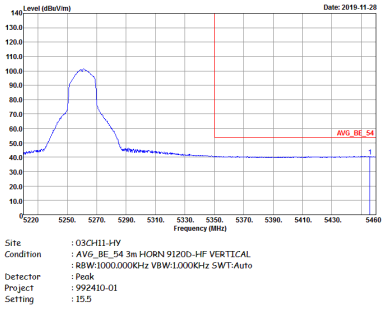
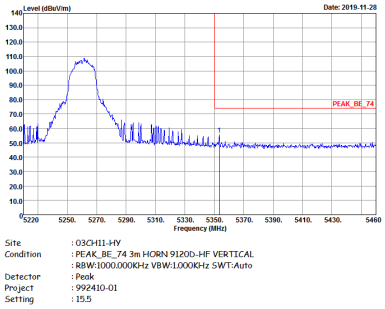
Band 2 - 5250~5350MHz

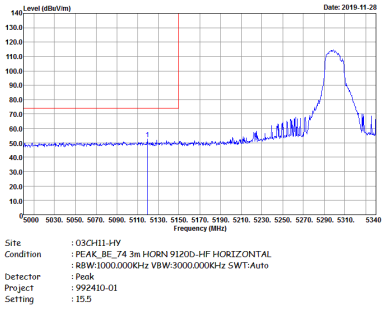
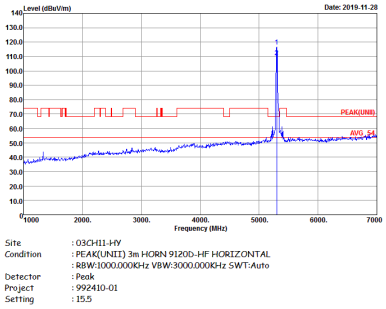
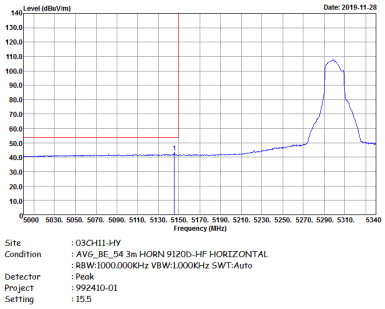
WIFI 802.11n HT20 (Band Edge @ 3m)

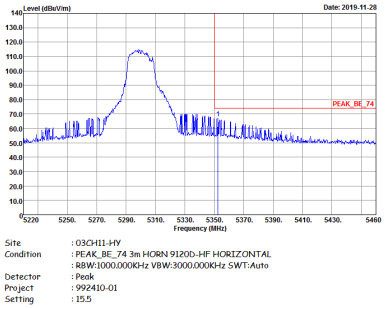
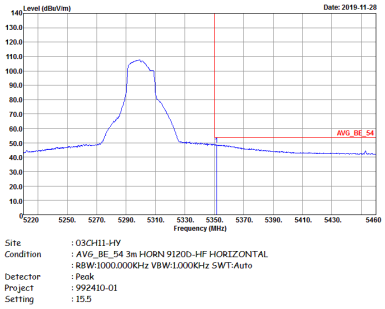
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

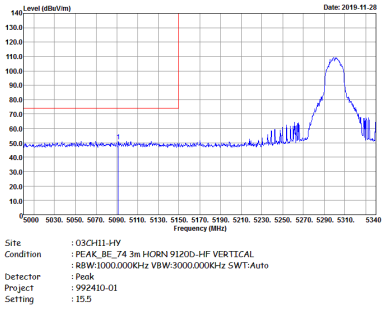
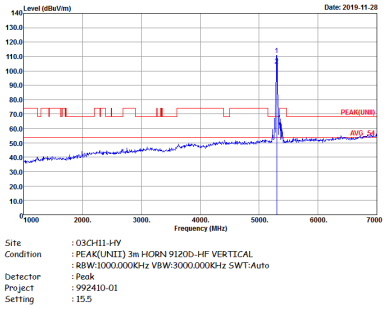
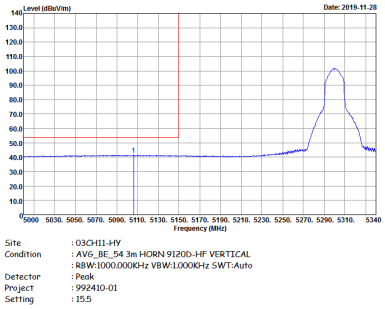
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

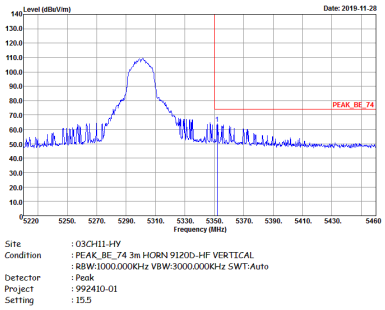
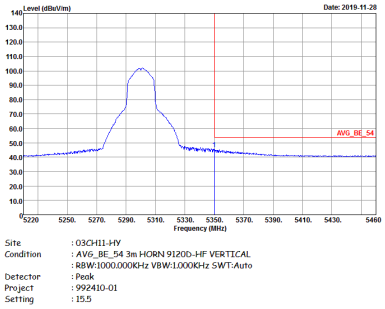
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

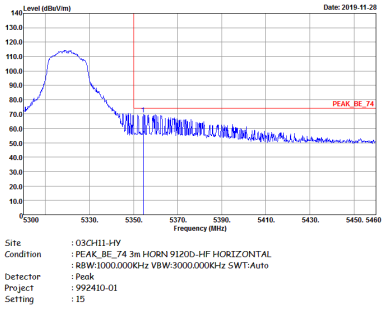
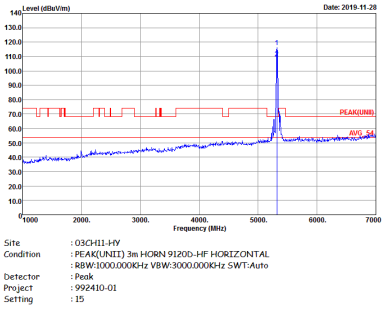
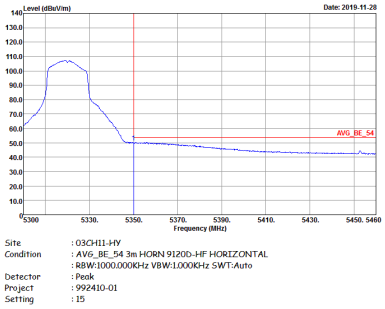
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

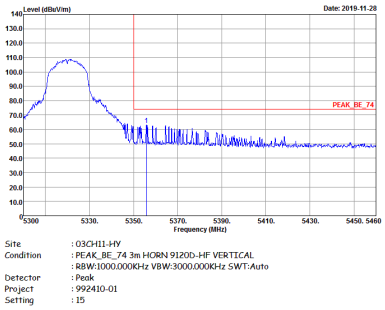
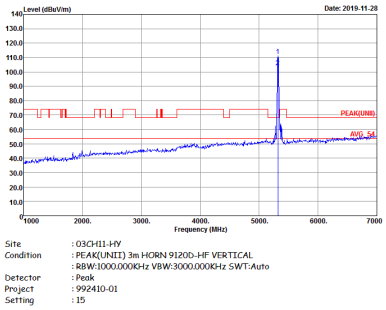
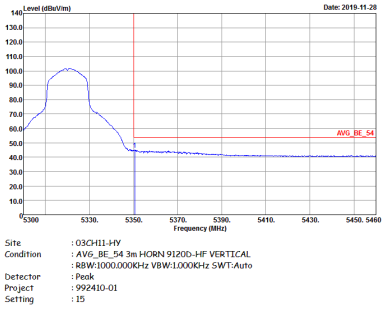
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0+1	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

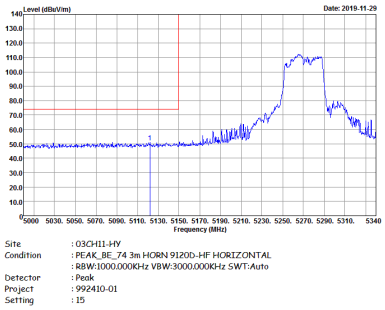
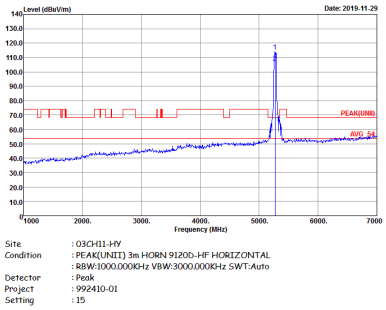
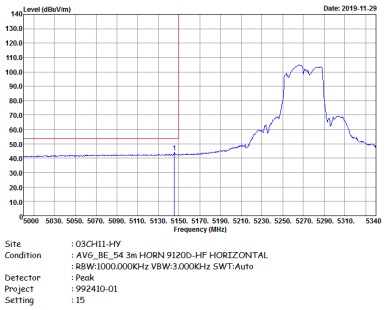
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

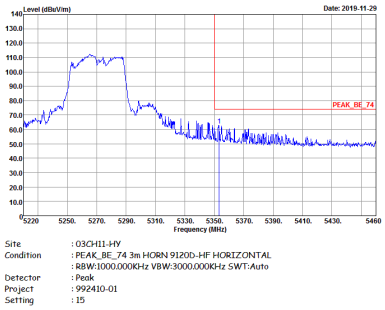
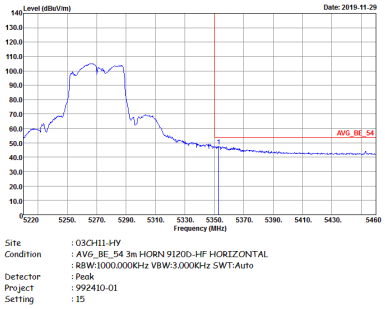
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

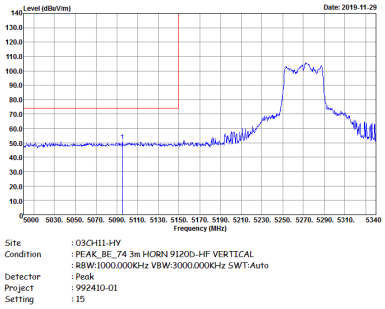
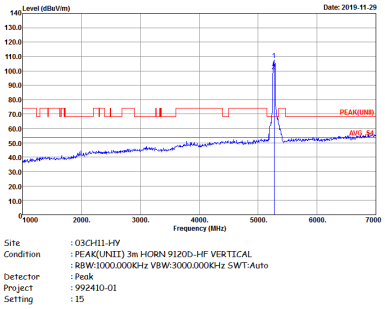
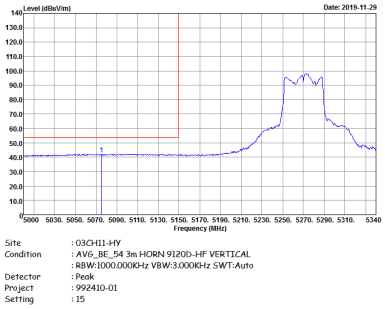
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

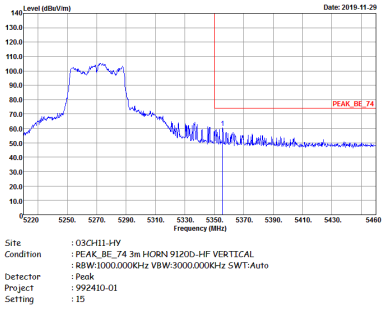
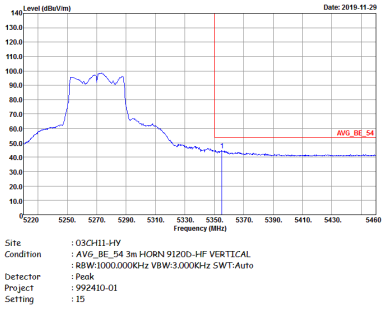
Band 2 5250~5350MHz

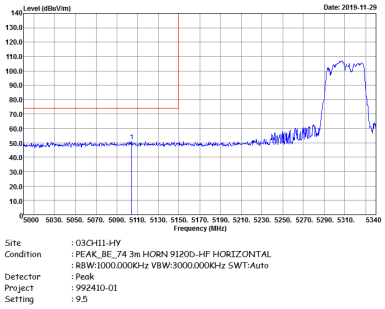
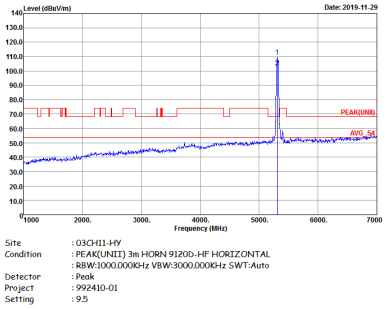
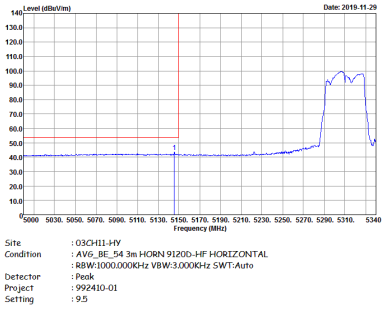
WIFI 802.11n HT40 (Band Edge @ 3m)

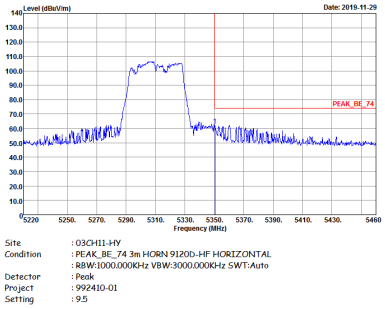
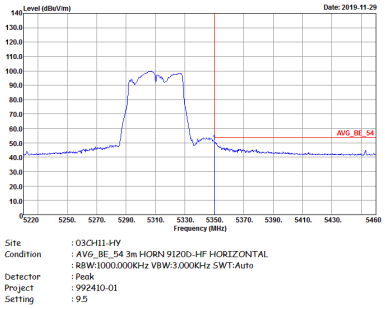
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
0+1	Horizontal	MHFundamental
Peak		
Avg.		Left blank

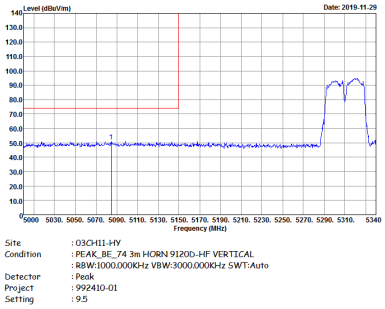
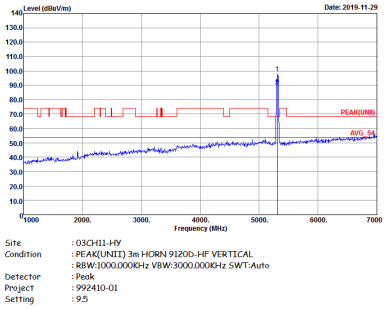
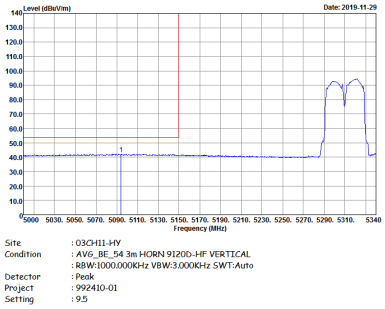
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

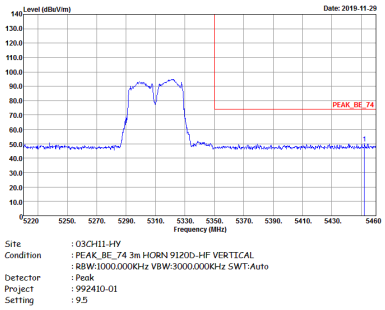
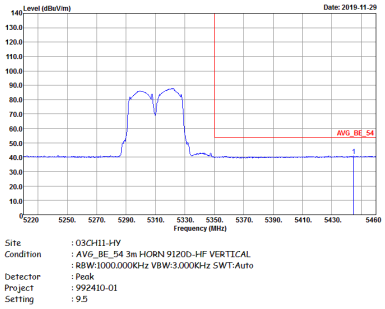
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
0+1	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
0+1	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

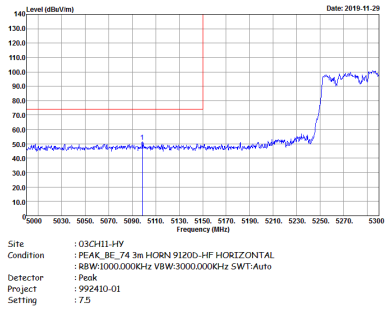
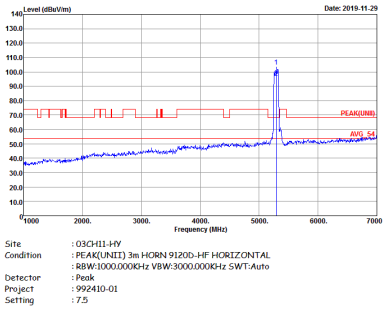
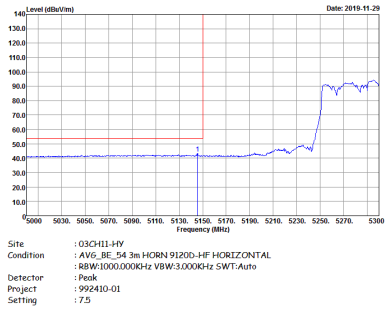
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

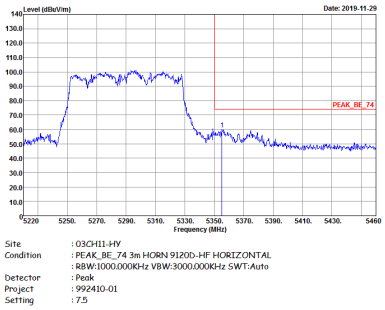
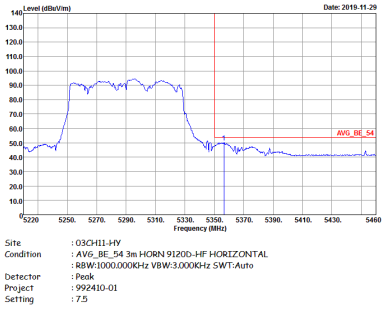
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

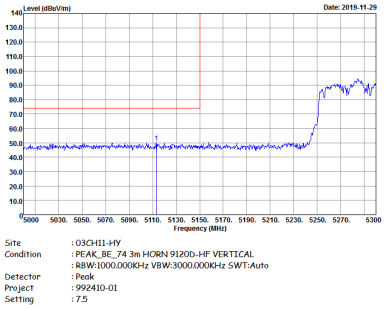
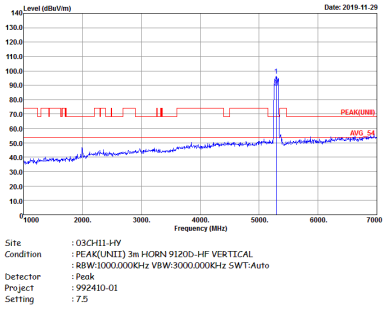
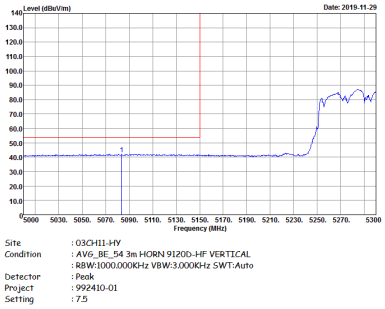
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

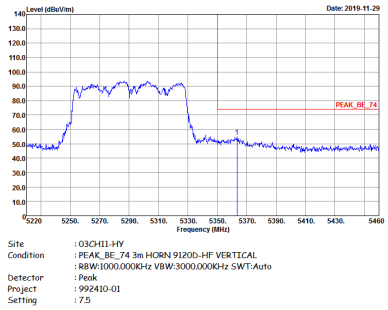
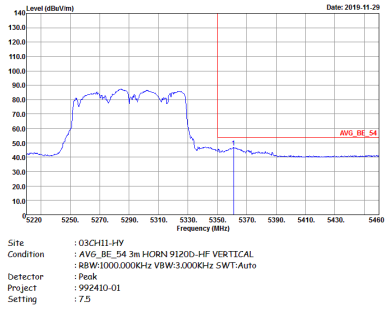
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

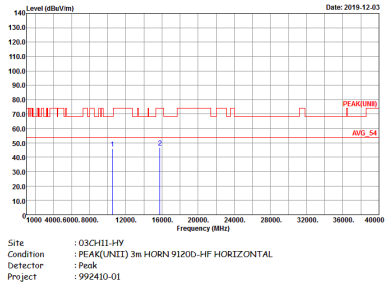
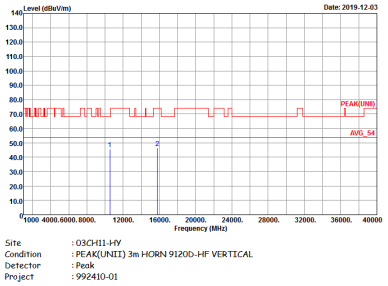
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

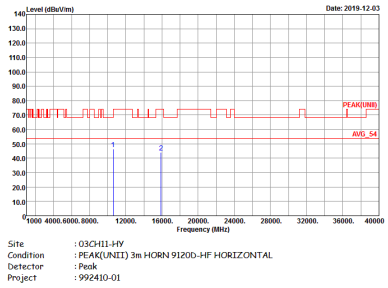
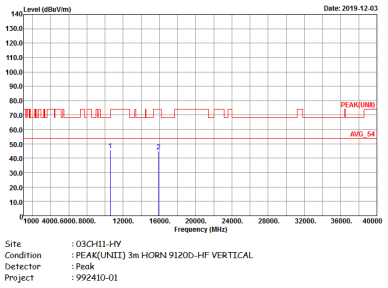
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

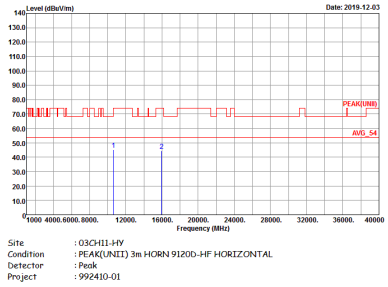
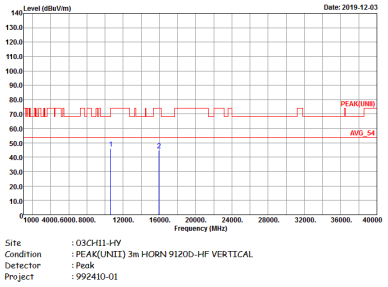
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

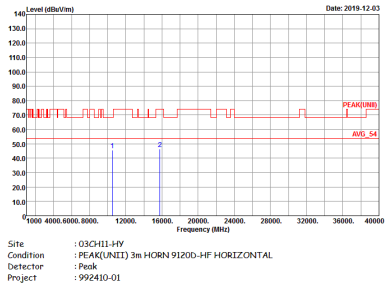
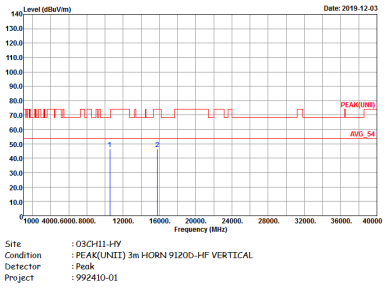
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
0+1	Horizontal	Vertical
Peak Avg.		

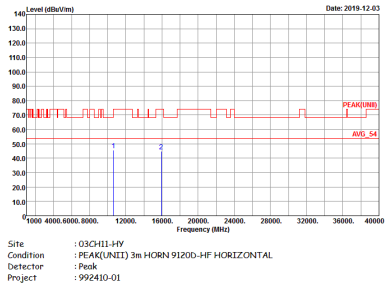
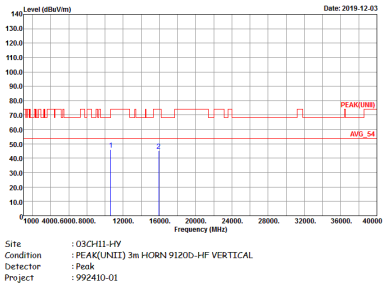
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

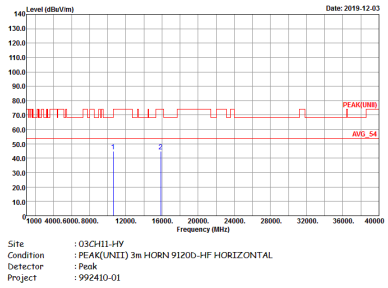
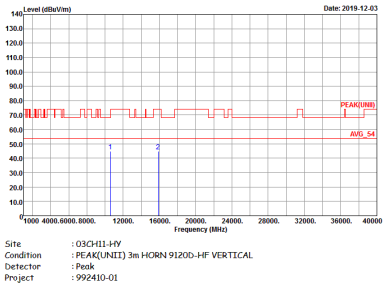
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310MHz	
0+1	Horizontal	Vertical
Peak Avg.		

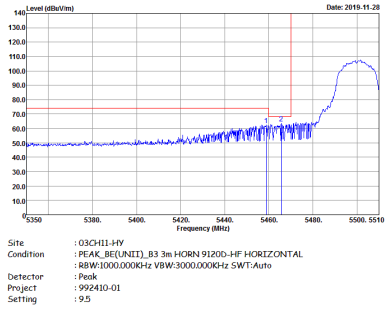
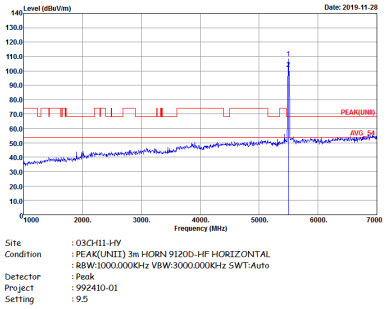
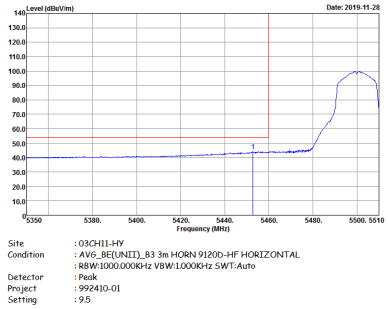
Band 2 5250~5350MHz

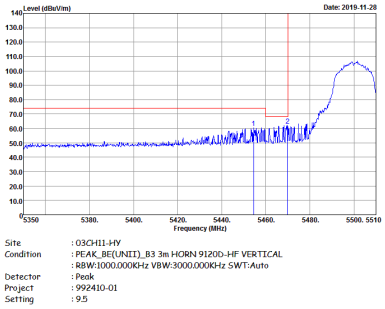
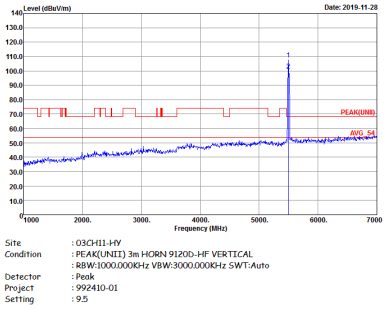
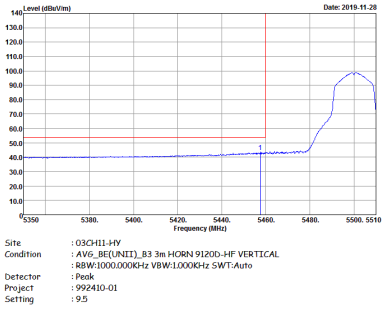
WIFI 802.11ac VHT80 (Harmonic @ 3m)

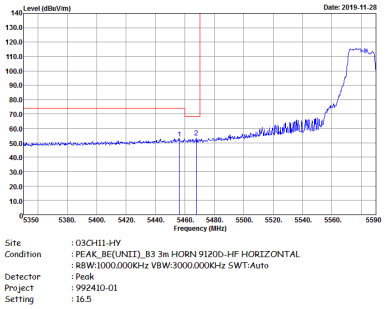
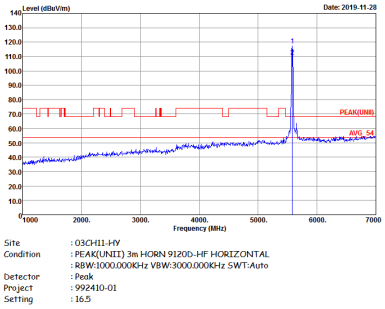
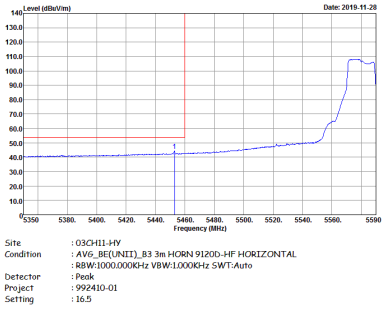
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
0+1	Horizontal	Vertical
Peak Avg.		

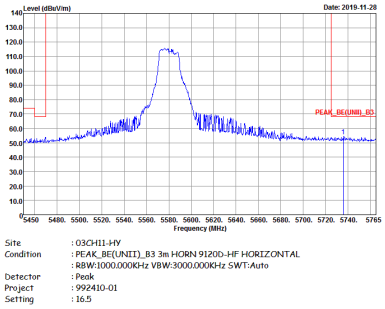
Band 3 - 5470~5725MHz

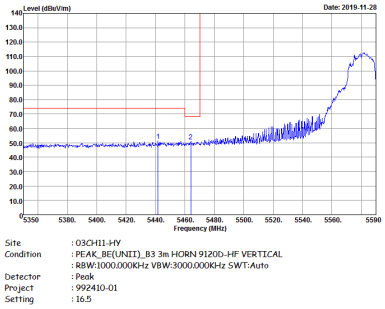
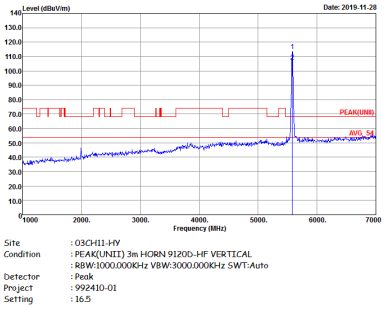
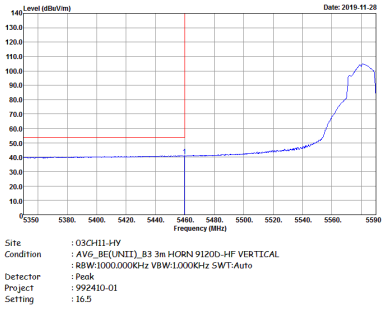
WIFI 802.11n HT20 (Band Edge @ 3m)

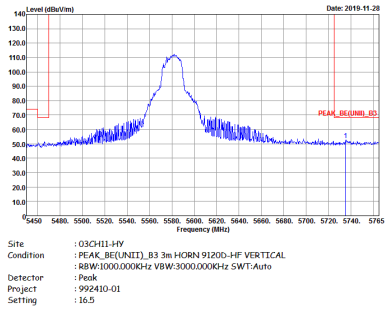
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

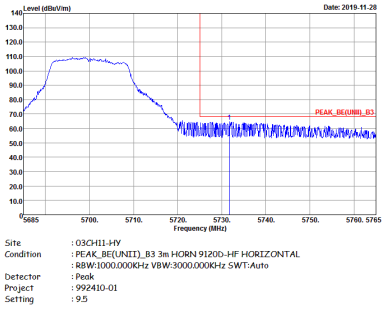
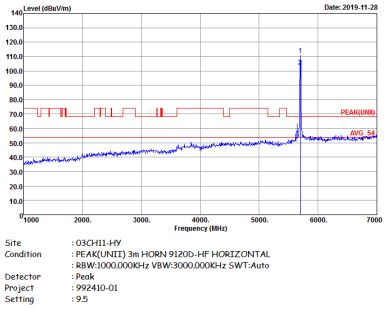
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

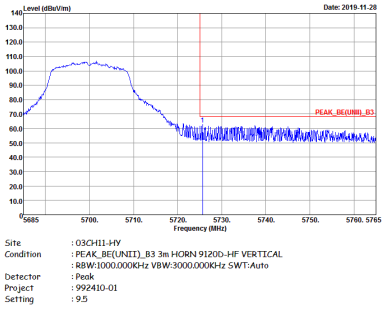
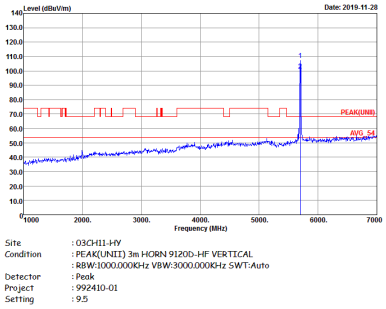
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
0+1	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 : 992410-01 Setting : 16.5	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

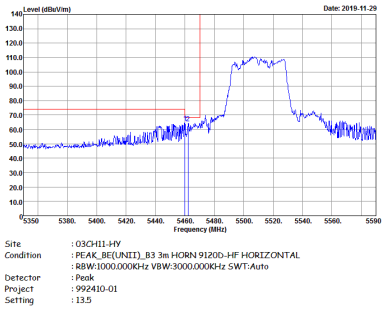
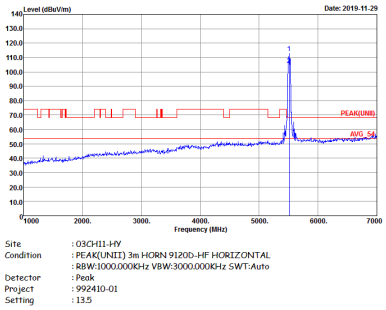
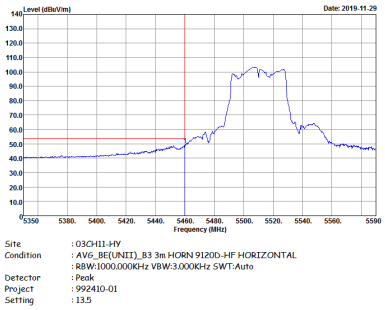
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank

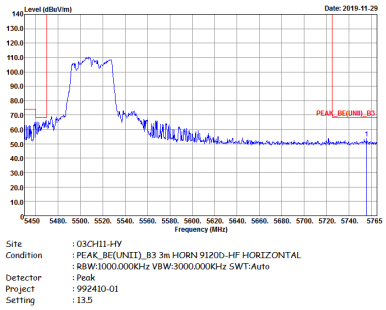
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
0+1	Horizontal	Fundamental
Peak		

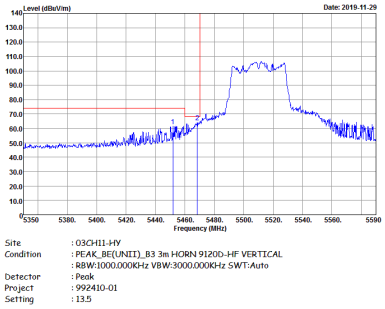
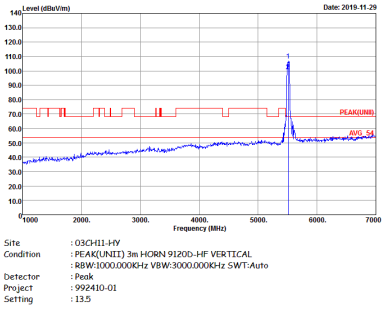
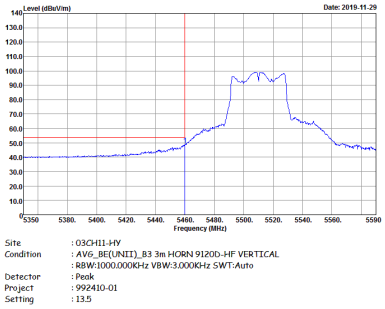
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
0+1	Vertical	Fundamental
Peak.		

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+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank