FCC RADIO TEST REPORT

FCC ID	:	P4Q-N650
Equipment	:	Tablet
Brand Name	:	MiTAC, Mio, NAVMAN
Model Name	:	N650
Applicant	:	MiTAC Digital Technology Corporation No. 200, Wen Hua 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Manufacturer	:	MITAC Computer (Kunshan) Co,. Ltd. No. 269, 2nd Avenue, District A, Conprehensive Free Trade Zone, 300 Kunshan, China
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Nov. 27, 2019 and testing was started from Dec. 02, 2019 and completed on Jan. 06, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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

Louis Wu

Approved by: Louis Wu

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR970921-04E	01	Initial issue of report	Jan. 09, 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 3.19 dB at 5149.500 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 11.79 dB at 0.573 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: Ruby Zou

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, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass: PATCH 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.
- ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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
	-	-		

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
	-	-	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
	-	-	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	142*	5710		

Note: The above Frequency and Channel in "*" were 802.11n HT40.

2.2 Test Mode

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

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20	**MCS0**
802.11n HT40	**MCS0**

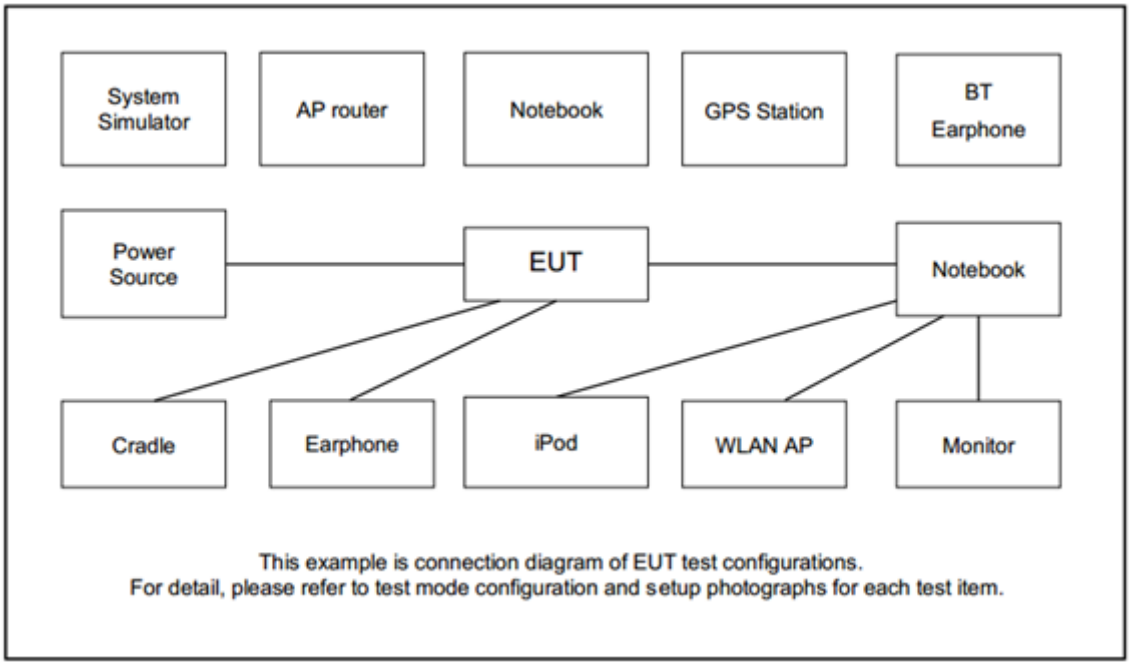
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + H-Pattern + USB Cable (Charging from Adapter)

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT3 v 3.0-00271” 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

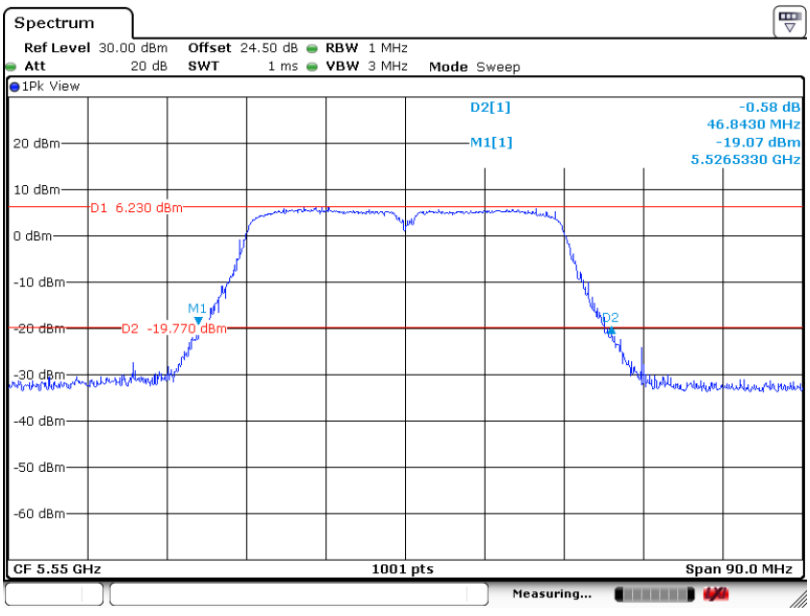
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

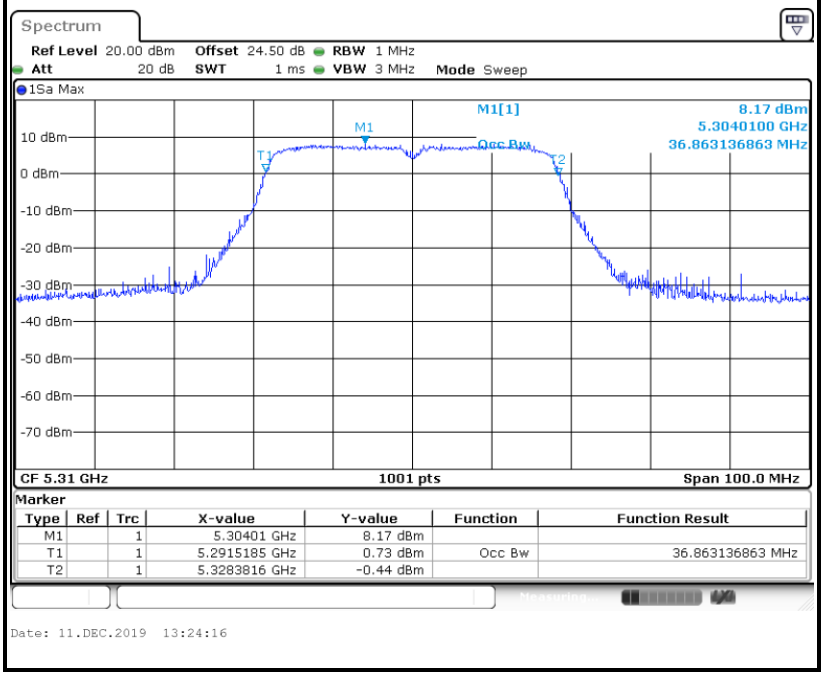
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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

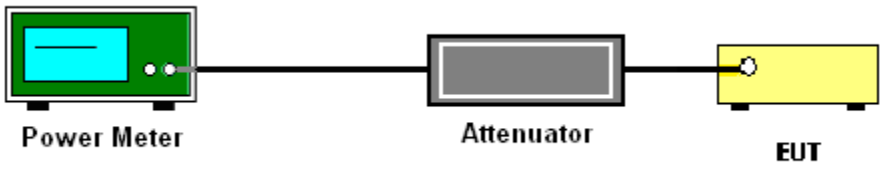
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

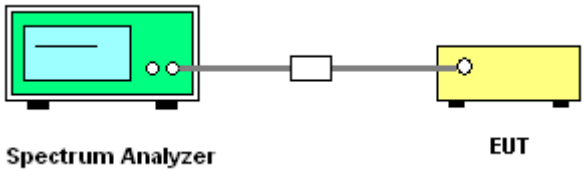
 # Method SA-3 #

(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.

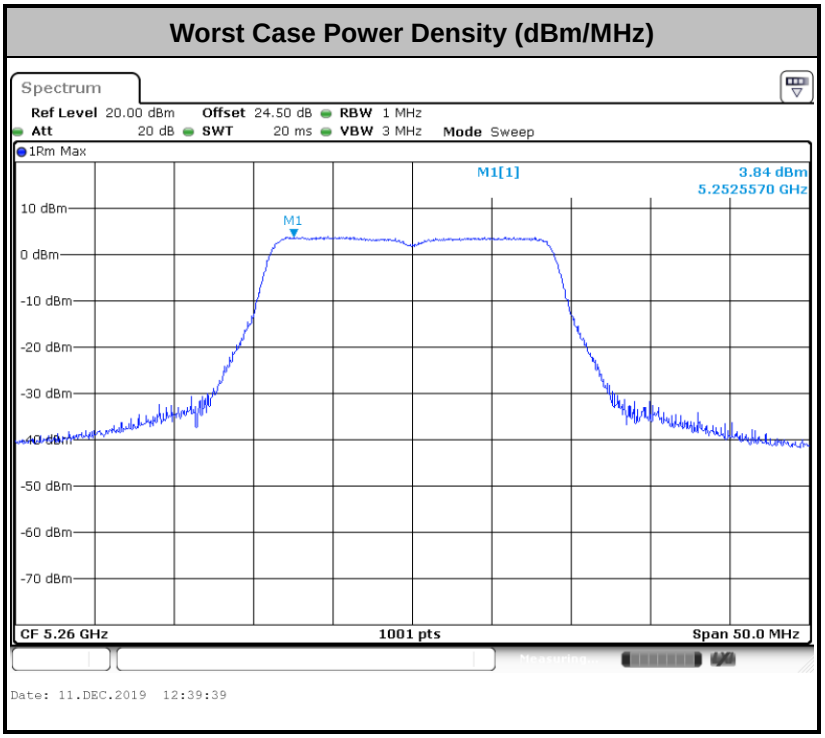
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

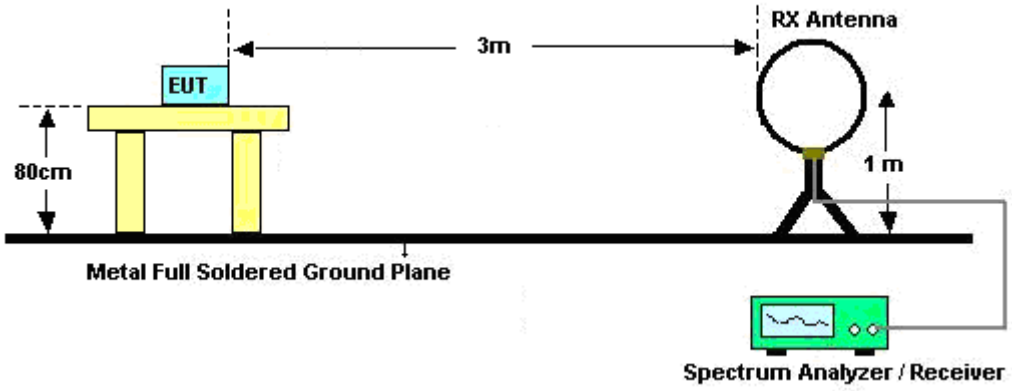
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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.

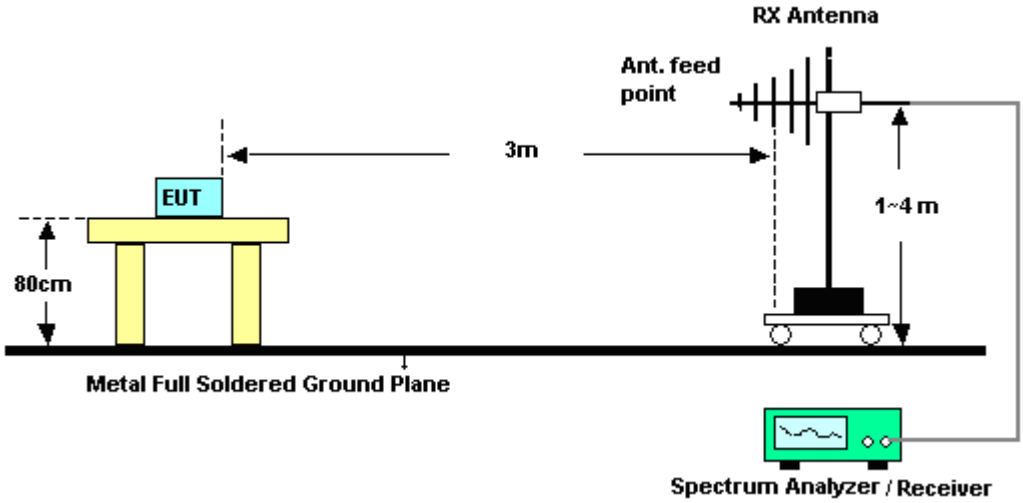
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified,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

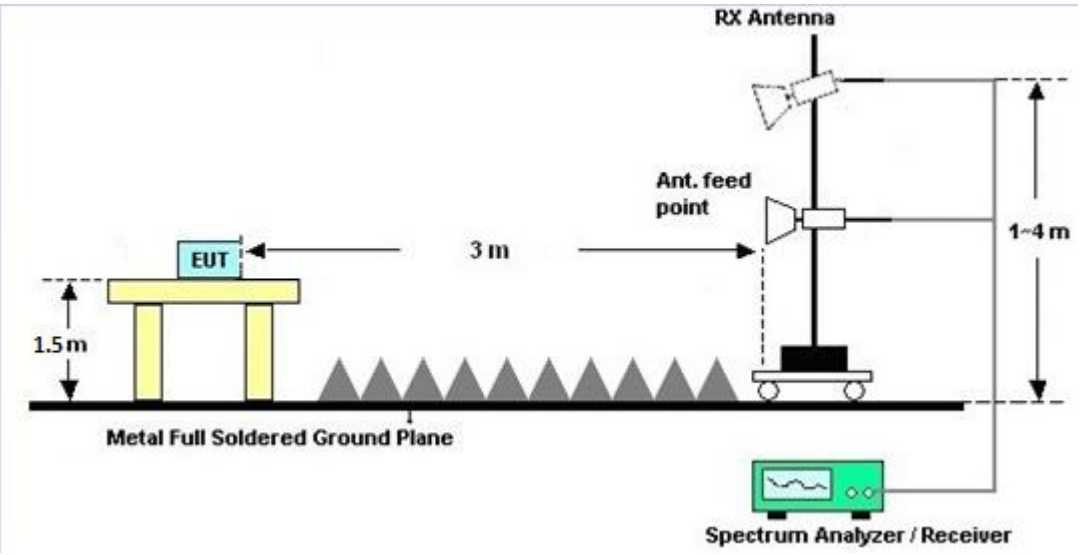
For radiated emissions below 30MHz



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.

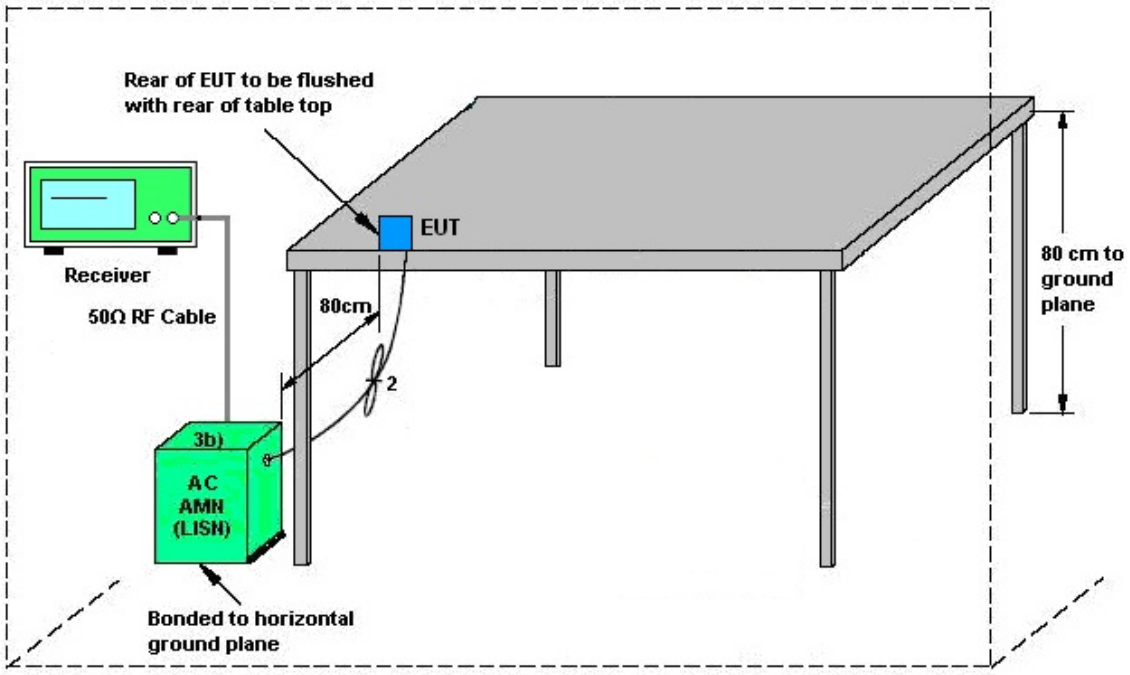
3.5.2 Measuring Instruments

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 17, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Dec. 17, 2019	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Dec. 17, 2019	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 17, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Dec. 17, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Dec. 17, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Dec. 02, 2019~ Jan. 02, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO35	10MHz~6GHz	Jan. 15, 2019	Dec. 02, 2019~ Jan. 02, 2020	Jan. 14, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Dec. 02, 2019~ Jan. 02, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Dec. 02, 2019~ Jan. 02, 2020	Mar. 26, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Jan. 06, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Nov. 04, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz- 40GHz	May 14, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	May 13, 2020	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA00101800 -30-10P	160118000 2	1GHz~18GHz	Aug. 01, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Jul. 31, 2020	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JAP00101800 -30-10P	160118550 004	1GHz~18GHz	Apr. 16, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Apr. 15, 2020	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 13, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Preamplifier	EMCE	EMC184045B	980192	18GHz ~ 40GHz	Aug. 01, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Jul. 31, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 28, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY554201 70	20MHz~8.4GHz	Mar. 08, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Mar. 07, 2020	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 09, 2019 ~ Jan. 06, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Dec. 09, 2019 ~ Jan. 06, 2020	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Dec. 09, 2019 ~ Jan. 06, 2020	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 13, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 13, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1.53G Low Pass	Sep. 15, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40SS	SN3	6.75GHz High Pass	Sep. 16, 2019	Dec. 09, 2019 ~ Jan. 06, 2020	Sep. 15, 2020	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.00**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

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:	Eason Huang	Temperature:	21~25	°C
Test Date:	2019/12/2~2020/01/02	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	17.13	-	23.78	-	-		22.34	-		
11a	6Mbps	1	44	5220	17.18	-	23.83	-	-		22.35	-		
11a	6Mbps	1	48	5240	17.18	-	23.98	-	-		22.35	-		
HT20	MCS0	1	36	5180	18.13	-	24.63	-	-		22.58	-		
HT20	MCS0	1	44	5220	18.08	-	24.03	-	-		22.57	-		
HT20	MCS0	1	48	5240	18.18	-	24.08	-	-		22.60	-		
HT40	MCS0	1	38	5190	36.76	-	45.94	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.76	-	46.30	-	-		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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	14.80	-		24.00	-	1.85	-		Pass
11a	6Mbps	1	44	5220	14.90	-		24.00	-	1.85	-		Pass
11a	6Mbps	1	48	5240	14.60	-		24.00	-	1.85	-		Pass
HT20	MCS0	1	36	5180	15.40	-		24.00	-	1.85	-		Pass
HT20	MCS0	1	44	5220	15.10	-		24.00	-	1.85	-		Pass
HT20	MCS0	1	48	5240	15.30	-		24.00	-	1.85	-		Pass
HT40	MCS0	1	38	5190	13.90	-		24.00	-	1.85	-		Pass
HT40	MCS0	1	46	5230	14.90	-		24.00	-	1.85	-		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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	3.21	-		11.00	-	1.85	-		Pass
11a	6Mbps	1	44	5220	3.54	-		11.00	-	1.85	-		Pass
11a	6Mbps	1	48	5240	3.26	-		11.00	-	1.85	-		Pass
HT20	MCS0	1	36	5180	3.65	-		11.00	-	1.85	-		Pass
HT20	MCS0	1	44	5220	3.40	-		11.00	-	1.85	-		Pass
HT20	MCS0	1	48	5240	3.66	-		11.00	-	1.85	-		Pass
HT40	MCS0	1	38	5190	-0.50	-		11.00	-	1.85	-		Pass
HT40	MCS0	1	46	5230	1.19	-		11.00	-	1.85	-		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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.18	-	23.78	-	23.35	-	29.35	-	23.98	-	
11a	6Mbps	1	60	5300	17.18	-	23.53	-	23.35	-	29.35	-	23.98	-	
11a	6Mbps	1	64	5320	17.18	-	24.18	-	23.35	-	29.35	-	23.98	-	
HT20	MCS0	1	52	5260	18.13	-	23.83	-	23.58	-	29.58	-	23.98	-	
HT20	MCS0	1	60	5300	18.08	-	24.98	-	23.57	-	29.57	-	23.98	-	
HT20	MCS0	1	64	5320	18.13	-	24.53	-	23.58	-	29.58	-	23.98	-	
HT40	MCS0	1	54	5270	36.86	-	45.76	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.86	-	45.67	-	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	14.80	-		23.98	-	1.63	-	26.99	Pass
11a	6Mbps	1	60	5300	14.60	-		23.98	-	1.63	-	26.99	Pass
11a	6Mbps	1	64	5320	14.60	-		23.98	-	1.63	-	26.99	Pass
HT20	MCS0	1	52	5260	15.40	-		23.98	-	1.63	-	26.99	Pass
HT20	MCS0	1	60	5300	14.60	-		23.98	-	1.63	-	26.99	Pass
HT20	MCS0	1	64	5320	14.60	-		23.98	-	1.63	-	26.99	Pass
HT40	MCS0	1	54	5270	14.80	-		23.98	-	1.63	-	26.99	Pass
HT40	MCS0	1	62	5310	14.90	-		23.98	-	1.63	-	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	3.43	-		11.00	-	1.63	-		Pass
11a	6Mbps	1	60	5300	3.22	-		11.00	-	1.63	-		Pass
11a	6Mbps	1	64	5320	3.21	-		11.00	-	1.63	-		Pass
HT20	MCS0	1	52	5260	3.84	-		11.00	-	1.63	-		Pass
HT20	MCS0	1	60	5300	3.45	-		11.00	-	1.63	-		Pass
HT20	MCS0	1	64	5320	3.19	-		11.00	-	1.63	-		Pass
HT40	MCS0	1	54	5270	0.81	-		11.00	-	1.63	-		Pass
HT40	MCS0	1	62	5310	0.79	-		11.00	-	1.63	-		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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	17.13	-	23.88	-	23.34	-	29.34	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.13	-	23.58	-	23.34	-	29.34	-	23.98	-	----	----
11a	6Mbps	1	140	5700	17.18	-	23.73	-	23.35	-	29.35	-	23.98	-	----	----
HT20	MCS0	1	100	5500	18.13	-	23.93	-	23.58	-	29.58	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.13	-	23.83	-	23.58	-	29.58	-	23.98	-	----	----
HT20	MCS0	1	140	5700	18.18	-	24.03	-	23.60	-	29.60	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.66	-	45.85	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.76	-	46.84	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.86	-	46.03	-	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.59	-	16.89	-	22.33	-	28.33	-	23.28	-	3.192	-
HT20	MCS0	1	144	5720	14.09	-	16.99	-	22.49	-	28.49	-	23.30	-	3.791	-
HT40	MCS0	1	142	5710	33.48	-	37.84	-	23.98	-	30.00	-	23.98	-	2.892	-

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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	12.70	-		23.98	-	1.46	-	26.99	Pass
11a	6Mbps	1	116	5580	12.20	-		23.98	-	1.46	-	26.99	Pass
11a	6Mbps	1	140	5700	11.90	-		23.98	-	1.46	-	26.99	Pass
HT20	MCS0	1	100	5500	12.80	-		23.98	-	1.46	-	26.99	Pass
HT20	MCS0	1	116	5580	12.50	-		23.98	-	1.46	-	26.99	Pass
HT20	MCS0	1	140	5700	12.00	-		23.98	-	1.46	-	26.99	Pass
HT40	MCS0	1	102	5510	13.10	-		23.98	-	1.46	-	26.99	Pass
HT40	MCS0	1	110	5550	12.80	-		23.98	-	1.46	-	26.99	Pass
HT40	MCS0	1	134	5670	12.30	-		23.98	-	1.46	-	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	12.00	-		23.28	-	1.46	-	26.99	Pass
HT20	MCS0	1	144	5720	11.90	-		23.30	-	1.46	-	26.99	Pass
HT40	MCS0	1	142	5710	12.20	-		23.98	-	1.46	-	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	1.50	-		11.00	-	1.46	-		Pass
11a	6Mbps	1	116	5580	1.53	-		11.00	-	1.46	-		Pass
11a	6Mbps	1	140	5700	1.22	-		11.00	-	1.46	-		Pass
HT20	MCS0	1	100	5500	1.48	-		11.00	-	1.46	-		Pass
HT20	MCS0	1	116	5580	1.21	-		11.00	-	1.46	-		Pass
HT20	MCS0	1	140	5700	0.64	-		11.00	-	1.46	-		Pass
HT40	MCS0	1	102	5510	-0.79	-		11.00	-	1.46	-		Pass
HT40	MCS0	1	110	5550	-1.33	-		11.00	-	1.46	-		Pass
HT40	MCS0	1	134	5670	-1.70	-		11.00	-	1.46	-		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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	1.50	-		11.00	-	1.46	-		Pass
HT20	MCS0	1	144	5720	0.47	-		11.00	-	1.46	-		Pass
HT40	MCS0	1	142	5710	-1.87	-		11.00	-	1.46	-		Pass

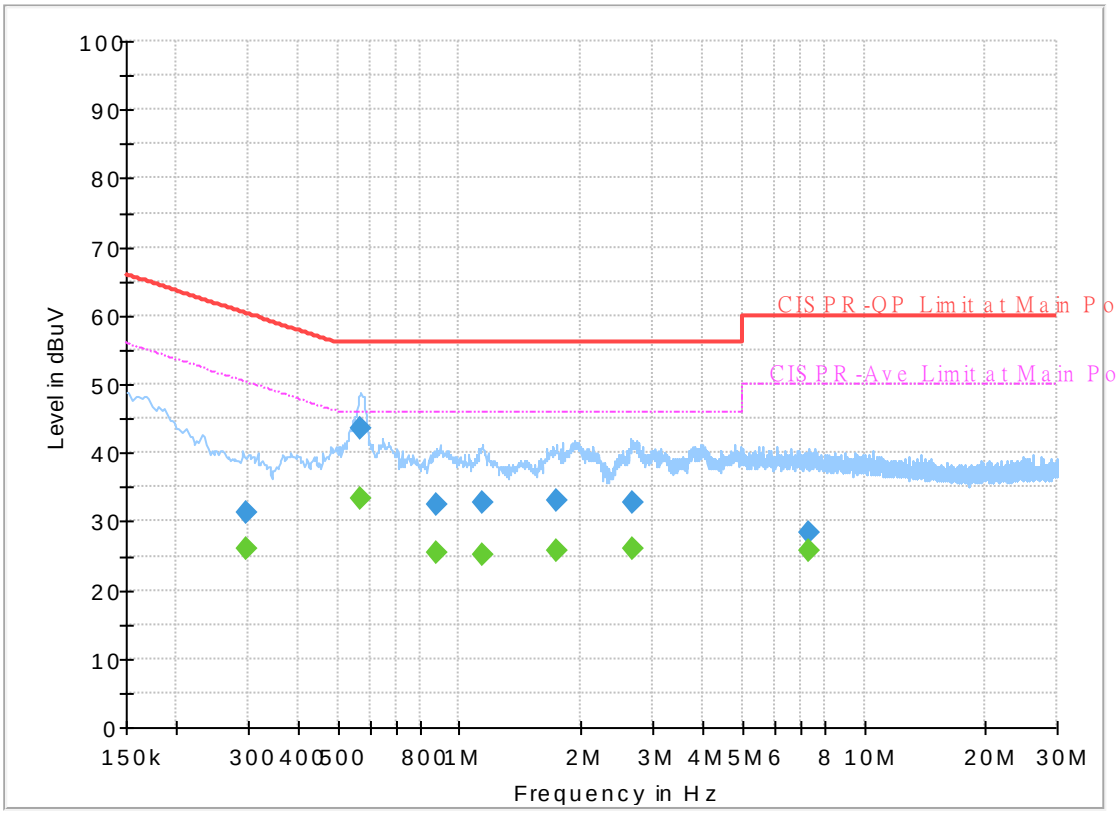
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	22~25℃
		Relative Humidity :	52~55%

EUT Information

Report NO :	970921-04
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



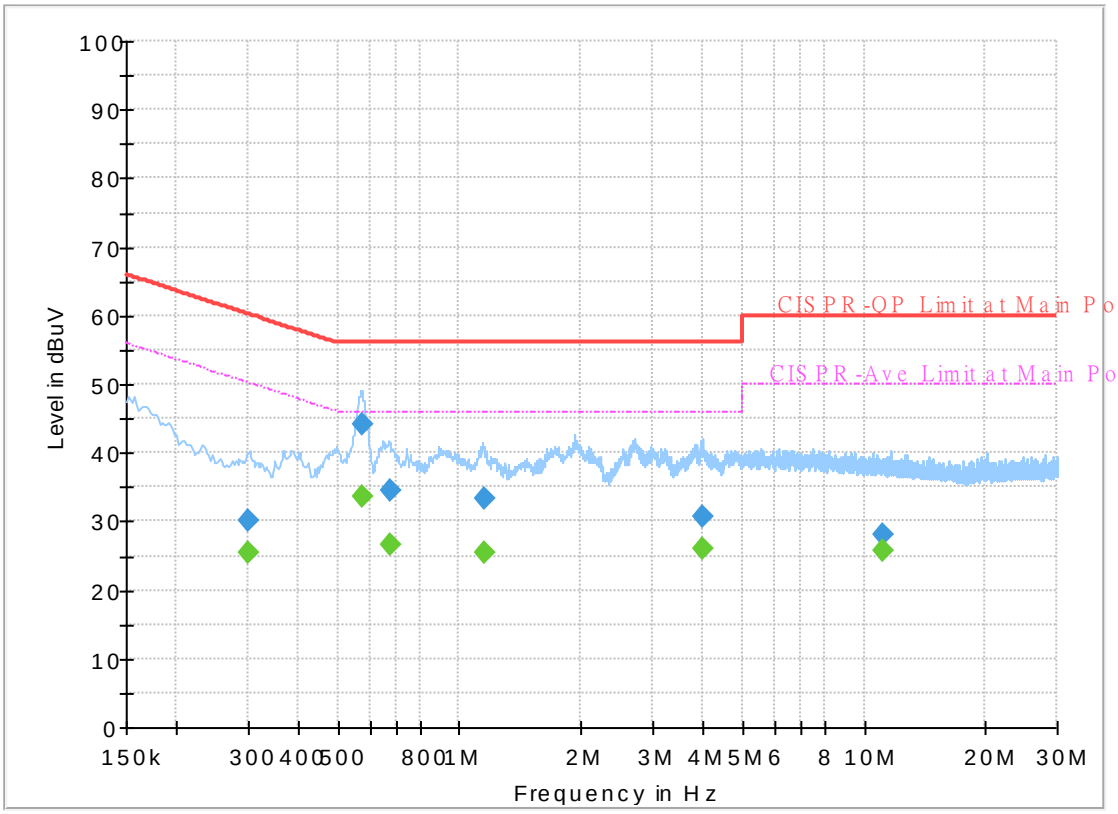
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.298500	---	26.03	50.28	24.25	L1	OFF	19.5
0.298500	31.37	---	60.28	28.91	L1	OFF	19.5
0.566880	---	33.25	46.00	12.75	L1	OFF	19.5
0.566880	43.70	---	56.00	12.30	L1	OFF	19.5
0.881250	---	25.42	46.00	20.58	L1	OFF	19.5
0.881250	32.41	---	56.00	23.59	L1	OFF	19.5
1.144500	---	25.20	46.00	20.80	L1	OFF	19.6
1.144500	32.89	---	56.00	23.11	L1	OFF	19.6
1.736610	---	25.77	46.00	20.23	L1	OFF	19.6
1.736610	32.98	---	56.00	23.02	L1	OFF	19.6
2.683230	---	26.02	46.00	19.98	L1	OFF	19.6
2.683230	32.71	---	56.00	23.29	L1	OFF	19.6
7.303650	---	25.73	50.00	24.27	L1	OFF	19.8
7.303650	28.36	---	60.00	31.64	L1	OFF	19.8

EUT Information

Report NO :	970921-04
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)
0.301650	---	25.51	50.20	24.69	N	OFF	19.5
0.301650	30.21	---	60.20	29.99	N	OFF	19.5
0.573000	---	33.62	46.00	12.38	N	OFF	19.6
0.573000	44.21	---	56.00	11.79	N	OFF	19.6
0.672810	---	26.66	46.00	19.34	N	OFF	19.6
0.672810	34.63	---	56.00	21.37	N	OFF	19.6
1.146750	---	25.36	46.00	20.64	N	OFF	19.6
1.146750	33.36	---	56.00	22.64	N	OFF	19.6
4.004250	---	25.94	46.00	20.06	N	OFF	19.7
4.004250	30.75	---	56.00	25.25	N	OFF	19.7
11.098500	---	25.68	50.00	24.32	N	OFF	20.0
11.098500	27.94	---	60.00	32.06	N	OFF	20.0

Appendix C. Radiated Spurious Emission

Test Engineer :	Cookie Ku, Fu Chen, and Troye Hsieh	**Temperature :**	18.6~26.4°C
		Relative Humidity :	45.3~68.9%

Band 1 - 5150~5250MHz

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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5134.16	58.06	-15.94	74	49.06	31.8	10.02	32.82	104	241	P	H
		5128.44	50.4	-3.6	54	41.42	31.8	10.01	32.83	104	241	A	H
	*	5180	110.4	-	-	101.5	31.62	10.07	32.79	104	241	P	H
802.11n	*	5180	102.48	-	-	93.58	31.62	10.07	32.79	104	241	A	H
HT20													H
CH 36		5126.36	52.98	-21.02	74	44	31.8	10.01	32.83	300	360	P	V
5180MHz		5128.18	44.34	-9.66	54	35.36	31.8	10.01	32.83	300	360	A	V
	*	5180	103.25	-	-	94.35	31.62	10.07	32.79	300	360	P	V
	*	5180	95.28	-	-	86.38	31.62	10.07	32.79	300	360	A	V
													V
		5146.64	53.47	-20.53	74	44.46	31.8	10.03	32.82	100	242	P	H
		5069.94	43.31	-10.69	54	34.61	31.62	9.95	32.87	100	242	A	H
	*	5220	110.49	-	-	101.7	31.46	10.1	32.77	100	242	P	H
	*	5220	103.2	-	-	94.41	31.46	10.1	32.77	100	242	A	H
802.11n		5404.66	55.47	-18.53	74	46.35	31.61	10.16	32.65	100	242	P	H
HT20		5407.63	43.85	-10.15	54	34.72	31.62	10.16	32.65	100	242	A	H
CH 44		5070.46	51.92	-22.08	74	43.21	31.62	9.95	32.86	296	357	P	V
5220MHz		5076.96	42.07	-11.93	54	33.32	31.66	9.95	32.86	296	357	A	V
	*	5220	104.32	-	-	95.53	31.46	10.1	32.77	296	357	P	V
	*	5220	96.28	-	-	87.49	31.46	10.1	32.77	296	357	A	V
		5422.21	50.39	-23.61	74	41.21	31.64	10.18	32.64	296	357	P	V
		5455.69	41.1	-12.9	54	31.76	31.72	10.24	32.62	296	357	A	V

		5050.18	53.23	-20.77	74	44.68	31.5	9.93	32.88	100	241	P	H
		5102.44	43.37	-10.63	54	34.43	31.8	9.98	32.84	100	241	A	H
	*	5240	110.89	-	-	102.13	31.42	10.1	32.76	100	241	P	H
	*	5240	103.06	-	-	94.3	31.42	10.1	32.76	100	241	A	H
802.11n		5425.99	54.05	-19.95	74	44.85	31.65	10.19	32.64	100	241	P	H
HT20		5377.93	43.81	-10.19	54	34.87	31.47	10.14	32.67	100	241	A	H
CH 48		5141.7	52.37	-21.63	74	43.36	31.8	10.03	32.82	292	360	P	V
5240MHz		5089.18	42.44	-11.56	54	33.58	31.74	9.97	32.85	292	360	A	V
	*	5240	103.78	-	-	95.02	31.42	10.1	32.76	292	360	P	V
	*	5240	96.05	-	-	87.29	31.42	10.1	32.76	292	360	A	V
		5435.17	51.25	-22.75	74	42.01	31.67	10.2	32.63	292	360	P	V
		5429.23	41.21	-12.79	54	31.99	31.66	10.2	32.64	292	360	A	V

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

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	47.3	-20.9	68.2	52.44	39.8	16.35	61.29	100	0	P	H
802.11n		15540	46.41	-27.59	74	48.27	37.84	20.62	60.32	100	0	P	H
HT20													H
CH 36		10360	46.88	-21.32	68.2	52.02	39.8	16.35	61.29	100	0	P	V
5180MHz		15540	46.07	-27.93	74	47.93	37.84	20.62	60.32	100	0	P	V
													V
		10440	46.86	-21.34	68.2	51.78	39.96	16.4	61.28	100	0	P	H
802.11n		15660	45.64	-28.36	74	48.11	37.42	20.6	60.49	100	0	P	H
HT20													H
CH 44		10440	48.34	-19.86	68.2	53.26	39.96	16.4	61.28	100	0	P	V
5220MHz		15660	44.97	-29.03	74	47.44	37.42	20.6	60.49	100	0	P	V
													V
		10480	45.9	-22.3	68.2	50.81	39.92	16.43	61.26	100	0	P	H
802.11n		15720	45.77	-28.23	74	48.5	37.28	20.58	60.59	100	0	P	H
HT20													H
CH 48		10480	46.17	-22.03	68.2	51.08	39.92	16.43	61.26	100	0	P	V
5240MHz		15720	44.73	-29.27	74	47.46	37.28	20.58	60.59	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.76	59.26	-14.74	74	50.24	31.8	10.03	32.81	102	244	P	H
		5149.5	50.81	-3.19	54	41.79	31.8	10.03	32.81	102	244	A	H
	*	5190	107.4	-	-	98.55	31.56	10.08	32.79	102	244	P	H
	*	5190	99.2	-	-	90.35	31.56	10.08	32.79	102	244	A	H
		5421.64	51	-23	74	41.82	31.64	10.18	32.64	102	244	P	H
		5393.92	42.42	-11.58	54	33.37	31.56	10.15	32.66	102	244	A	H
		5149.76	53.18	-20.82	74	44.16	31.8	10.03	32.81	319	13	P	V
		5149.24	46.99	-7.01	54	37.97	31.8	10.03	32.81	319	13	A	V
	*	5190	102.67	-	-	93.82	31.56	10.08	32.79	319	13	P	V
	*	5190	94.74	-	-	85.89	31.56	10.08	32.79	319	13	A	V
		5399.8	49.49	-24.51	74	40.39	31.6	10.15	32.65	319	13	P	V
		5458.6	40.69	-13.31	54	31.34	31.73	10.24	32.62	319	13	A	V
802.11n HT40 CH 46 5230MHz		5125.84	52.74	-21.26	74	43.76	31.8	10.01	32.83	100	242	P	H
		5127.14	45.47	-8.53	54	36.49	31.8	10.01	32.83	100	242	A	H
	*	5230	109.59	-	-	100.81	31.44	10.1	32.76	100	242	P	H
	*	5230	100.56	-	-	91.78	31.44	10.1	32.76	100	242	A	H
		5440.03	51.68	-22.32	74	42.42	31.68	10.21	32.63	100	242	P	H
		5431.66	43.08	-10.92	54	33.85	31.66	10.2	32.63	100	242	A	H
		5054.34	50.64	-23.36	74	42.06	31.53	9.93	32.88	331	15	P	V
		5127.4	42.89	-11.11	54	33.91	31.8	10.01	32.83	331	15	A	V
	*	5230	102.41	-	-	93.63	31.44	10.1	32.76	331	15	P	V
	*	5230	94.76	-	-	85.98	31.44	10.1	32.76	331	15	A	V
		5417.35	49.8	-24.2	74	40.63	31.63	10.18	32.64	331	15	P	V
		5458.93	40.8	-13.2	54	31.44	31.74	10.24	32.62	331	15	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5096.9	52.15	-21.85	74	43.24	31.78	9.98	32.85	100	244	P	H
		5123.08	43.11	-10.89	54	34.13	31.8	10.01	32.83	100	244	A	H
	*	5260	110.49	-	-	101.72	31.4	10.11	32.74	100	244	P	H
	*	5260	102.69	-	-	93.92	31.4	10.11	32.74	100	244	A	H
		5448	53.15	-20.85	74	43.85	31.7	10.22	32.62	100	244	P	H
		5409.6	43.36	-10.64	54	34.23	31.62	10.16	32.65	100	244	A	H
		5030.26	51.41	-22.59	74	42.98	31.42	9.9	32.89	308	346	P	V
		5074.46	41.72	-12.28	54	32.98	31.65	9.95	32.86	308	346	A	V
	*	5260	103.81	-	-	95.04	31.4	10.11	32.74	308	346	P	V
	*	5260	95.67	-	-	86.9	31.4	10.11	32.74	308	346	A	V
		5402.4	50.2	-23.8	74	41.1	31.6	10.15	32.65	308	346	P	V
		5449.44	40.73	-13.27	54	31.42	31.7	10.23	32.62	308	346	A	V
802.11a CH 60 5300MHz		5124.1	51.71	-22.29	74	42.73	31.8	10.01	32.83	100	242	P	H
		5061.88	42.64	-11.36	54	34	31.57	9.94	32.87	100	242	A	H
	*	5300	110.74	-	-	101.94	31.4	10.12	32.72	100	242	P	H
	*	5300	102.55	-	-	93.75	31.4	10.12	32.72	100	242	A	H
		5352.72	57.44	-16.56	74	48.66	31.32	10.14	32.68	100	242	P	H
		5352.24	48.83	-5.17	54	40.06	31.31	10.14	32.68	100	242	A	H
		5089.08	50.98	-23.02	74	42.13	31.73	9.97	32.85	258	2	P	V
		5091.46	41.6	-12.4	54	32.73	31.75	9.97	32.85	258	2	A	V
	*	5300	103.31	-	-	94.51	31.4	10.12	32.72	258	2	P	V
	*	5300	95.38	-	-	86.58	31.4	10.12	32.72	258	2	A	V
		5445.36	49.64	-24.36	74	40.35	31.69	10.22	32.62	258	2	P	V
		5352.24	41.9	-12.1	54	33.13	31.31	10.14	32.68	258	2	A	V

802.11a CH 64 5320MHz	*	5320	110.55	-	-	101.77	31.36	10.13	32.71	107	243	P	H
	*	5320	102.42	-	-	93.64	31.36	10.13	32.71	107	243	A	H
		5366.24	58.1	-15.9	74	49.24	31.4	10.14	32.68	107	243	P	H
		5372.32	48.68	-5.32	54	39.78	31.43	10.14	32.67	107	243	A	H
													H
	*	5320	102.97	-	-	94.19	31.36	10.13	32.71	287	349	P	V
	*	5320	95.1	-	-	86.32	31.36	10.13	32.71	287	349	A	V
		5374.56	52.26	-21.74	74	43.34	31.45	10.14	32.67	287	349	P	V
		5372.16	43.15	-10.85	54	34.25	31.43	10.14	32.67	287	349	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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	46.1	-22.1	68.2	51.01	39.9	16.46	61.27	100	0	P	H
		15780	45.81	-28.19	74	48.69	37.22	20.57	60.67	100	0	P	H
													H
		10520	46.64	-21.56	68.2	51.55	39.9	16.46	61.27	100	0	P	V
		15780	45.27	-28.73	74	48.15	37.22	20.57	60.67	100	0	P	V
													V
802.11a CH 60 5300MHz		10600	44.77	-29.23	74	49.67	39.9	16.51	61.31	100	0	P	H
		15900	44.3	-29.7	74	47.7	36.9	20.54	60.84	100	0	P	H
													H
		10600	46.15	-27.85	74	51.05	39.9	16.51	61.31	100	0	P	V
		15900	44.49	-29.51	74	47.89	36.9	20.54	60.84	100	0	P	V
													V
802.11a CH 64 5320MHz		10640	45.56	-28.44	74	50.53	39.82	16.54	61.33	100	0	P	H
		15960	44.79	-29.21	74	48.42	36.78	20.53	60.94	100	0	P	H
													H
		10640	46.59	-27.41	74	51.56	39.82	16.54	61.33	100	0	P	V
		15960	44.4	-29.6	74	48.03	36.78	20.53	60.94	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5086.02	53.51	-20.49	74	44.68	31.72	9.96	32.85	100	242	P	H
		5123.42	43.51	-10.49	54	34.53	31.8	10.01	32.83	100	242	A	H
	*	5260	111.42	-	-	102.65	31.4	10.11	32.74	100	242	P	H
	*	5260	103.39	-	-	94.62	31.4	10.11	32.74	100	242	A	H
		5396.4	52.72	-21.28	74	43.65	31.58	10.15	32.66	100	242	P	H
		5396.16	44	-10	54	34.93	31.58	10.15	32.66	100	242	A	H
		5116.28	51.67	-22.33	74	42.71	31.8	10	32.84	290	342	P	V
		5109.48	42.2	-11.8	54	33.25	31.8	9.99	32.84	290	342	A	V
	*	5260	103.78	-	-	95.01	31.4	10.11	32.74	290	342	P	V
	*	5260	95.77	-	-	87	31.4	10.11	32.74	290	342	A	V
		5414.16	50.28	-23.72	74	41.12	31.63	10.17	32.64	290	342	P	V
		5448.96	41.15	-12.85	54	31.84	31.7	10.23	32.62	290	342	A	V
802.11n HT20 CH 60 5300MHz		5116.28	53.51	-20.49	74	44.55	31.8	10	32.84	100	242	P	H
		5064.26	43.15	-10.85	54	34.49	31.59	9.94	32.87	100	242	A	H
	*	5300	110.53	-	-	101.73	31.4	10.12	32.72	100	242	P	H
	*	5300	102.06	-	-	93.26	31.4	10.12	32.72	100	242	A	H
		5350.56	61.26	-12.74	74	52.51	31.3	10.14	32.69	100	242	P	H
		5351.52	49.57	-4.43	54	40.81	31.31	10.14	32.69	100	242	A	H
		5056.44	52.02	-21.98	74	43.42	31.54	9.93	32.87	301	344	P	V
		5106.08	41.94	-12.06	54	32.99	31.8	9.99	32.84	301	344	A	V
	*	5300	103.75	-	-	94.95	31.4	10.12	32.72	301	344	P	V
	*	5300	95.63	-	-	86.83	31.4	10.12	32.72	301	344	A	V
		5352.24	52.15	-21.85	74	43.38	31.31	10.14	32.68	301	344	P	V
		5351.76	43.48	-10.52	54	34.71	31.31	10.14	32.68	301	344	A	V

	*	5320	110.99	-	-	102.21	31.36	10.13	32.71	100	242	P	H
	*	5320	103.08	-	-	94.3	31.36	10.13	32.71	100	242	A	H
		5365.68	58.42	-15.58	74	49.57	31.39	10.14	32.68	100	242	P	H
802.11n		5371.68	50.61	-3.39	54	41.71	31.43	10.14	32.67	100	242	A	H
HT20													H
CH 64	*	5320	103.11	-	-	94.33	31.36	10.13	32.71	304	360	P	V
5320MHz	*	5320	94.72	-	-	85.94	31.36	10.13	32.71	304	360	A	V
		5362.08	54.31	-19.69	74	45.48	31.37	10.14	32.68	304	360	P	V
		5371.68	43.52	-10.48	54	34.62	31.43	10.14	32.67	304	360	A	V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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	46.96	-21.24	68.2	51.87	39.9	16.46	61.27	100	0	P	H
802.11n		15780	45.15	-28.85	74	48.03	37.22	20.57	60.67	100	0	P	H
HT20													H
CH 52		10520	46.99	-21.21	68.2	51.9	39.9	16.46	61.27	100	0	P	V
5260MHz		15780	46.16	-27.84	74	49.04	37.22	20.57	60.67	100	0	P	V
													V
		10600	46	-28	74	50.9	39.9	16.51	61.31	100	0	P	H
802.11n		15900	44.52	-29.48	74	47.92	36.9	20.54	60.84	100	0	P	H
HT20													H
CH 60		10600	46.8	-27.2	74	51.7	39.9	16.51	61.31	100	0	P	V
5300MHz		15900	44.22	-29.78	74	47.62	36.9	20.54	60.84	100	0	P	V
													V
		10640	45.3	-28.7	74	50.27	39.82	16.54	61.33	100	0	P	H
802.11n		15960	44.87	-29.13	74	48.5	36.78	20.53	60.94	100	0	P	H
HT20													H
CH 64		10640	46.03	-27.97	74	51	39.82	16.54	61.33	100	0	P	V
5320MHz		15960	44.81	-29.19	74	48.44	36.78	20.53	60.94	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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		5106.08	50.98	-23.02	74	42.03	31.8	9.99	32.84	106	242	P	H
		5137.02	42.74	-11.26	54	33.74	31.8	10.02	32.82	106	242	A	H
	*	5270	108.1	-	-	99.33	31.4	10.11	32.74	106	242	P	H
	*	5270	100.38	-	-	91.61	31.4	10.11	32.74	106	242	A	H
		5455.92	51.84	-22.16	74	42.5	31.72	10.24	32.62	106	242	P	H
		5372.64	44.18	-9.82	54	35.27	31.44	10.14	32.67	106	242	A	H
		5055.08	50.88	-23.12	74	42.29	31.53	9.93	32.87	305	0	P	V
		5094.86	41.96	-12.04	54	33.07	31.77	9.97	32.85	305	0	A	V
	*	5270	101.87	-	-	93.1	31.4	10.11	32.74	305	0	P	V
	*	5270	93.58	-	-	84.81	31.4	10.11	32.74	305	0	A	V
		5430.72	49.6	-24.4	74	40.37	31.66	10.2	32.63	305	0	P	V
		5453.52	41.3	-12.7	54	31.98	31.71	10.23	32.62	305	0	A	V
802.11n HT40 CH 62 5310MHz		5125.8	51.88	-22.12	74	42.9	31.8	10.01	32.83	100	243	P	H
		5081.94	43.04	-10.96	54	34.25	31.69	9.96	32.86	100	243	A	H
	*	5310	108.68	-	-	99.89	31.38	10.12	32.71	100	243	P	H
	*	5310	100.09	-	-	91.3	31.38	10.12	32.71	100	243	A	H
		5352.96	58.91	-15.09	74	50.13	31.32	10.14	32.68	100	243	P	H
		5353.92	46.82	-7.18	54	38.04	31.32	10.14	32.68	100	243	A	H
		5116.28	51.01	-22.99	74	42.05	31.8	10	32.84	286	348	P	V
		5107.78	41.83	-12.17	54	32.88	31.8	9.99	32.84	286	348	A	V
	*	5310	100.83	-	-	92.04	31.38	10.12	32.71	286	348	P	V
	*	5310	93.02	-	-	84.23	31.38	10.12	32.71	286	348	A	V
		5357.52	52.87	-21.13	74	44.06	31.35	10.14	32.68	286	348	P	V
		5352.24	41.53	-12.47	54	32.76	31.31	10.14	32.68	286	348	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.48	58.27	-15.73	74	48.92	31.73	10.24	32.62	103	243	P	H
		5470	53.95	-14.25	68.2	44.52	31.78	10.26	32.61	103	243	P	H
		5447.92	50.72	-3.28	54	41.42	31.7	10.22	32.62	103	243	A	H
	*	5500	111.81	-	-	102.19	31.9	10.31	32.59	103	243	P	H
	*	5500	103.96	-	-	94.34	31.9	10.31	32.59	103	243	A	H
													H
		5447.92	52.17	-21.83	74	42.87	31.7	10.22	32.62	285	360	P	V
		5469.52	50.45	-17.75	68.2	41.02	31.78	10.26	32.61	285	360	P	V
		5447.44	44.25	-9.75	54	34.96	31.69	10.22	32.62	285	360	A	V
	*	5500	105.29	-	-	95.67	31.9	10.31	32.59	285	360	P	V
	*	5500	97.76	-	-	88.14	31.9	10.31	32.59	285	360	A	V
													V
802.11a CH 116 5580MHz		5428.96	53.04	-20.96	74	43.83	31.66	10.19	32.64	100	245	P	H
		5464.24	50.68	-17.52	68.2	41.28	31.76	10.25	32.61	100	245	P	H
		5443.12	43.71	-10.29	54	34.43	31.69	10.22	32.63	100	245	A	H
	*	5580	111.85	-	-	102.13	31.86	10.43	32.57	100	245	P	H
	*	5580	104.34	-	-	94.62	31.86	10.43	32.57	100	245	A	H
		5725.94	52.01	-16.19	68.2	41.86	32.15	10.53	32.53	100	245	P	H
		5404.96	50.32	-23.68	74	41.2	31.61	10.16	32.65	290	1	P	V
		5466.64	49.47	-18.73	68.2	40.06	31.77	10.25	32.61	290	1	P	V
		5439.76	40.92	-13.08	54	31.66	31.68	10.21	32.63	290	1	A	V
	*	5580	106.46	-	-	96.74	31.86	10.43	32.57	290	1	P	V
	*	5580	99.22	-	-	89.5	31.86	10.43	32.57	290	1	A	V
		5731.295	51.44	-16.76	68.2	41.28	32.16	10.53	32.53	290	1	P	V

802.11a CH 140 5700MHz	*	5700	111.21	-	-	101.13	32.1	10.51	32.53	100	247	P	H
	*	5700	103.42	-	-	93.34	32.1	10.51	32.53	100	247	A	H
		5725.32	60.38	-7.82	68.2	50.23	32.15	10.53	32.53	100	247	P	H
													H
	*	5700	106.92	-	-	96.84	32.1	10.51	32.53	270	0	P	V
	*	5700	99.4	-	-	89.32	32.1	10.51	32.53	270	0	A	V
		5725.56	56.99	-11.21	68.2	46.84	32.15	10.53	32.53	270	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	47.69	-26.31	74	54.33	40	16.76	63.4	100	0	P	H
		16500	46.99	-21.21	68.2	49.7	38.4	21.19	62.3	100	0	P	H
													H
		11000	46.64	-27.36	74	53.28	40	16.76	63.4	100	0	P	V
		16500	45.36	-22.84	68.2	48.07	38.4	21.19	62.3	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	46.97	-27.03	74	53.93	39.48	16.99	63.43	100	0	P	H
		16740	46.68	-21.52	68.2	47.95	39.38	21.51	62.16	100	0	P	H
													H
		11160	47.18	-26.82	74	54.14	39.48	16.99	63.43	100	0	P	V
		16740	46.46	-21.74	68.2	47.73	39.38	21.51	62.16	100	0	P	V
													V
802.11a CH 140 5700MHz		11400	46.95	-27.05	74	53.39	39.7	17.34	63.48	100	0	P	H
		17100	46.6	-21.6	68.2	46.81	39.7	21.95	61.86	100	0	P	H
													H
		11400	46.28	-27.72	74	52.72	39.7	17.34	63.48	100	0	P	V
		17100	47.48	-20.72	68.2	47.69	39.7	21.95	61.86	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5448.4	58.25	-15.75	74	48.94	31.7	10.23	32.62	102	243	P	H
		5465.2	53.79	-14.41	68.2	44.39	31.76	10.25	32.61	102	243	P	H
		5448.4	50.64	-3.36	54	41.33	31.7	10.23	32.62	102	243	A	H
	*	5500	110.39	-	-	100.77	31.9	10.31	32.59	102	243	P	H
802.11n	*	5500	103.08	-	-	93.46	31.9	10.31	32.59	102	243	A	H
HT20													H
CH 100		5448.4	52.46	-21.54	74	43.15	31.7	10.23	32.62	284	358	P	V
5500MHz		5462.08	50.39	-17.81	68.2	41	31.75	10.25	32.61	284	358	P	V
		5448.16	44.37	-9.63	54	35.07	31.7	10.22	32.62	284	358	A	V
	*	5500	104.65	-	-	95.03	31.9	10.31	32.59	284	358	P	V
	*	5500	96.55	-	-	86.93	31.9	10.31	32.59	284	358	A	V
													V
		5403.28	55.18	-18.82	74	46.06	31.61	10.16	32.65	100	244	P	H
		5463.76	53.14	-15.06	68.2	43.74	31.76	10.25	32.61	100	244	P	H
		5395.84	44.91	-9.09	54	35.84	31.58	10.15	32.66	100	244	A	H
	*	5580	113.26	-	-	103.54	31.86	10.43	32.57	100	244	P	H
802.11n	*	5580	105.79	-	-	96.07	31.86	10.43	32.57	100	244	A	H
HT20		5763.74	52.12	-16.08	68.2	41.86	32.23	10.55	32.52	100	244	P	H
CH 116		5431.12	51.47	-22.53	74	42.24	31.66	10.2	32.63	290	360	P	V
5580MHz		5468.56	50.8	-17.4	68.2	41.38	31.77	10.26	32.61	290	360	P	V
		5443.84	41.78	-12.22	54	32.5	31.69	10.22	32.63	290	360	A	V
	*	5580	107.94	-	-	98.22	31.86	10.43	32.57	290	360	P	V
	*	5580	100.53	-	-	90.81	31.86	10.43	32.57	290	360	A	V
		5765	51.9	-16.3	68.2	41.64	32.23	10.55	32.52	290	360	P	V

	*	5700	109.18	-	-	99.1	32.1	10.51	32.53	100	248	P	H
	*	5700	101.21	-	-	91.13	32.1	10.51	32.53	100	248	A	H
802.11n		5746.04	58.3	-9.9	68.2	48.09	32.19	10.54	32.52	100	248	P	H
HT20													H
CH 140	*	5700	105.26	-	-	95.18	32.1	10.51	32.53	306	360	P	V
5700MHz	*	5700	97.33	-	-	87.25	32.1	10.51	32.53	306	360	A	V
		5741.64	54.31	-13.89	68.2	44.11	32.18	10.54	32.52	306	360	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	47.18	-26.82	74	53.82	40	16.76	63.4	100	0	P	H
802.11n		16500	45.62	-22.58	68.2	48.33	38.4	21.19	62.3	100	0	P	H
HT20													H
CH 100		11000	48.37	-25.63	74	55.01	40	16.76	63.4	100	0	P	V
5500MHz		16500	45.36	-22.84	68.2	48.07	38.4	21.19	62.3	100	0	P	V
													V
		11160	47.13	-26.87	74	54.09	39.48	16.99	63.43	100	0	P	H
802.11n		16740	47.18	-21.02	68.2	48.45	39.38	21.51	62.16	100	0	P	H
HT20													H
CH 116		11160	48.69	-25.31	74	55.65	39.48	16.99	63.43	100	0	P	V
5580MHz		16740	46.57	-21.63	68.2	47.84	39.38	21.51	62.16	100	0	P	V
													V
		11400	45.69	-28.31	74	52.13	39.7	17.34	63.48	100	0	P	H
802.11n		17100	47.61	-20.59	68.2	47.82	39.7	21.95	61.86	100	0	P	H
HT20													H
CH 140		11400	46.4	-27.6	74	52.84	39.7	17.34	63.48	100	0	P	V
5700MHz		17100	46.5	-21.7	68.2	46.71	39.7	21.95	61.86	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5458.24	63.01	-10.99	74	53.66	31.73	10.24	32.62	100	244	P	H
		5464	62.9	-5.3	68.2	53.5	31.76	10.25	32.61	100	244	P	H
		5459.44	49.36	-4.64	54	40	31.74	10.24	32.62	100	244	A	H
	*	5510	110.68	-	-	101.07	31.88	10.32	32.59	100	244	P	H
802.11n	*	5510	102.55	-	-	92.94	31.88	10.32	32.59	100	244	A	H
HT40		5735.39	50.88	-17.32	68.2	40.7	32.17	10.53	32.52	100	244	P	H
CH 102		5453.44	53.62	-20.38	74	44.3	31.71	10.23	32.62	285	4	P	V
5510MHz		5468.56	55.37	-12.83	68.2	45.95	31.77	10.26	32.61	285	4	P	V
		5459.92	43.85	-10.15	54	34.49	31.74	10.24	32.62	285	4	A	V
	*	5510	104.53	-	-	94.92	31.88	10.32	32.59	285	4	P	V
	*	5510	96.02	-	-	86.41	31.88	10.32	32.59	285	4	A	V
		5735.075	50.99	-17.21	68.2	40.81	32.17	10.53	32.52	285	4	P	V
		5446.72	54.85	-19.15	74	45.56	31.69	10.22	32.62	100	247	P	H
		5465.44	54.12	-14.08	68.2	44.72	31.76	10.25	32.61	100	247	P	H
		5447.44	47.89	-6.11	54	38.6	31.69	10.22	32.62	100	247	A	H
	*	5550	110.03	-	-	100.43	31.8	10.38	32.58	100	247	P	H
802.11n	*	5550	102.78	-	-	93.18	31.8	10.38	32.58	100	247	A	H
HT40		5742.005	52.87	-15.33	68.2	42.67	32.18	10.54	32.52	100	247	P	H
CH 110		5440	50.53	-23.47	74	41.27	31.68	10.21	32.63	103	82	P	V
5550MHz		5464.48	50.27	-17.93	68.2	40.87	31.76	10.25	32.61	103	82	P	V
		5447.2	42.98	-11.02	54	33.69	31.69	10.22	32.62	103	82	A	V
	*	5550	104.76	-	-	95.16	31.8	10.38	32.58	103	82	P	V
	*	5550	97.5	-	-	87.9	31.8	10.38	32.58	103	82	A	V
		5733.815	51.89	-16.31	68.2	41.71	32.17	10.53	32.52	103	82	P	V

		5442.05	52.42	-21.58	74	43.15	31.68	10.22	32.63	100	247	P	H
		5462.7	53.22	-14.98	68.2	43.83	31.75	10.25	32.61	100	247	P	H
		5441	44.9	-9.1	54	35.64	31.68	10.21	32.63	100	247	A	H
	*	5670	109.02	-	-	99.14	31.92	10.5	32.54	100	247	P	H
802.11n	*	5670	101.3	-	-	91.42	31.92	10.5	32.54	100	247	A	H
HT40		5737.875	53.94	-14.26	68.2	43.74	32.18	10.54	32.52	100	247	P	H
CH 134		5391.65	49.86	-24.14	74	40.82	31.55	10.15	32.66	260	3	P	V
5670MHz		5469.7	50.91	-17.29	68.2	41.48	31.78	10.26	32.61	260	3	P	V
		5439.25	41.62	-12.38	54	32.36	31.68	10.21	32.63	260	3	A	V
	*	5670	105.22	-	-	95.34	31.92	10.5	32.54	260	3	P	V
	*	5670	97.38	-	-	87.5	31.92	10.5	32.54	260	3	A	V
		5725.975	51.1	-17.1	68.2	40.95	32.15	10.53	32.53	260	3	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. 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)
		11020	46.38	-27.62	74	53.07	39.92	16.79	63.4	100	0	P	H
802.11n		16530	46.91	-21.29	68.2	49.44	38.52	21.23	62.28	100	0	P	H
HT40													H
CH 102		11020	47.93	-26.07	74	54.62	39.92	16.79	63.4	100	0	P	V
5510MHz		16530	45.72	-22.48	68.2	48.25	38.52	21.23	62.28	100	0	P	V
													V
		11100	45.71	-28.29	74	52.62	39.6	16.91	63.42	100	0	P	H
802.11n		16650	46.02	-22.18	68.2	47.89	38.95	21.39	62.21	100	0	P	H
HT40													H
CH 110		11100	44.93	-29.07	74	51.84	39.6	16.91	63.42	100	0	P	V
5550MHz		16650	45.72	-22.48	68.2	47.59	38.95	21.39	62.21	100	0	P	V
													V
		11340	46.84	-27.16	74	53.53	39.52	17.26	63.47	100	0	P	H
802.11n		17010	46.92	-21.28	68.2	47.34	39.7	21.87	61.99	100	0	P	H
HT40													H
CH 134		11340	47.39	-26.61	74	54.08	39.52	17.26	63.47	100	0	P	V
5670MHz		17010	46.34	-21.86	68.2	46.76	39.7	21.87	61.99	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		5449.84	51.97	-22.03	74	42.66	31.7	10.23	32.62	103	248	P	H
		5464.66	49.8	-18.4	68.2	40.4	31.76	10.25	32.61	103	248	P	H
		5436.58	42.55	-11.45	54	33.3	31.67	10.21	32.63	103	248	A	H
	*	5720	110.26	-	-	100.12	32.14	10.53	32.53	103	248	P	H
	*	5720	102.45	-	-	92.31	32.14	10.53	32.53	103	248	A	H
		5862.75	51.3	-16.9	68.2	40.76	32.43	10.6	32.49	103	248	P	H
		5438.53	49.52	-24.48	74	40.26	31.68	10.21	32.63	279	4	P	V
		5461.93	48.99	-19.21	68.2	39.6	31.75	10.25	32.61	279	4	P	V
		5439.7	40.64	-13.36	54	31.38	31.68	10.21	32.63	279	4	A	V
	*	5720	106.82	-	-	96.68	32.14	10.53	32.53	279	4	P	V
	*	5720	98.77	-	-	88.63	32.14	10.53	32.53	279	4	A	V
		5871	51.56	-16.64	68.2	41.01	32.44	10.6	32.49	279	4	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. 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	47.31	-26.69	74	51.26	39.66	17.4	61.01	100	0	P	H
802.11n		17160	49.4	-18.8	68.2	47.63	40	22	60.23	100	0	P	H
HT20													H
CH 144		11440	48.21	-25.79	74	52.16	39.66	17.4	61.01	100	0	P	V
5720MHz		17160	48.09	-20.11	68.2	46.32	40	22	60.23	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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		5441.26	51.65	-22.35	74	42.39	31.68	10.21	32.63	100	253	P	H
		5463.1	50.91	-17.29	68.2	41.52	31.75	10.25	32.61	100	253	P	H
		5458.81	42.04	-11.96	54	32.68	31.74	10.24	32.62	100	253	A	H
	*	5710	108.89	-	-	98.78	32.12	10.52	32.53	100	253	P	H
	*	5710	100.14	-	-	90.03	32.12	10.52	32.53	100	253	A	H
		5883.5	52.17	-16.03	68.2	41.58	32.47	10.6	32.48	100	253	P	H
		5420.98	49.98	-24.02	74	40.8	31.64	10.18	32.64	282	359	P	V
		5468.17	50.03	-18.17	68.2	40.61	31.77	10.26	32.61	282	359	P	V
		5459.98	41.03	-12.97	54	31.67	31.74	10.24	32.62	282	359	A	V
	*	5710	104.24	-	-	94.13	32.12	10.52	32.53	282	359	P	V
	*	5710	96.16	-	-	86.05	32.12	10.52	32.53	282	359	A	V
		5851.75	51.88	-16.32	68.2	41.38	32.4	10.59	32.49	282	359	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		30	21.7	-18.3	40	29.2	24.15	0.77	32.42	-	-	P	H
		40.67	20.57	-19.43	40	33.34	18.85	0.86	32.48	-	-	P	H
		188.11	23.39	-20.11	43.5	39.47	14.56	1.93	32.57	-	-	P	H
		873.9	32.03	-13.97	46	30.65	29.06	4.16	31.84	-	-	P	H
		939.86	32.12	-13.88	46	29.49	29.52	4.31	31.2	-	-	P	H
		955.38	33.43	-12.57	46	29.7	30.38	4.35	31	100	0	P	H
													H
		34.85	28.58	-11.42	40	38.17	22.04	0.82	32.45	-	-	P	V
		40.67	33.54	-6.46	40	46.31	18.85	0.86	32.48	100	0	P	V
		59.1	25.73	-14.27	40	45.67	11.51	1.06	32.51	-	-	P	V
		910.76	31.79	-14.21	46	30.28	28.86	4.24	31.59	-	-	P	V
		939.86	32.46	-13.54	46	29.83	29.52	4.31	31.2	-	-	P	V
		956.35	32.62	-13.38	46	28.82	30.44	4.35	30.99	-	-	P	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.	
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

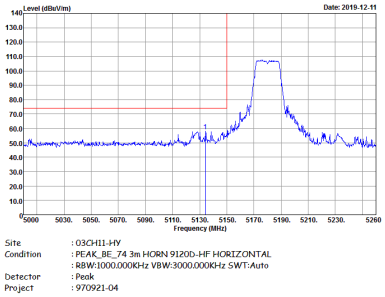
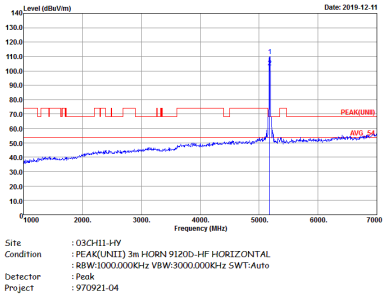
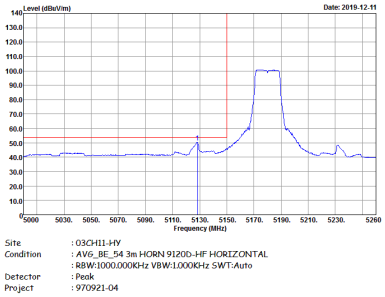
Test Engineer :	Cookie Ku, Fu Chen, and Troye Hsieh	**Temperature :**	18.6~26.4°C
		Relative Humidity :	45.3~68.9%

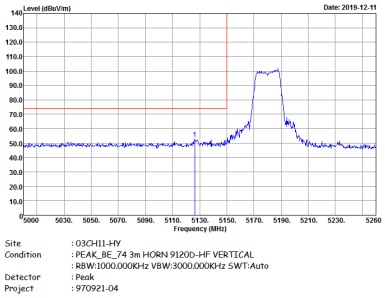
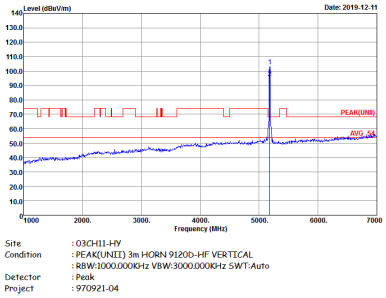
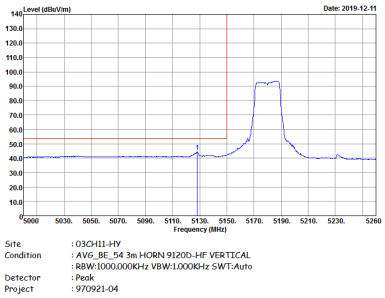
Note symbol

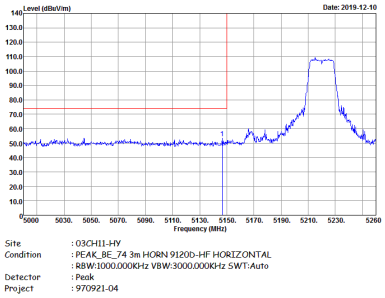
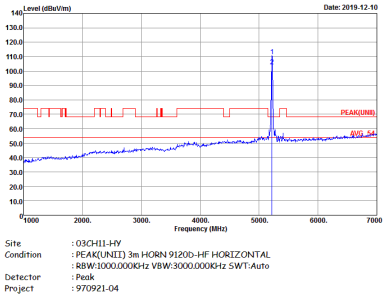
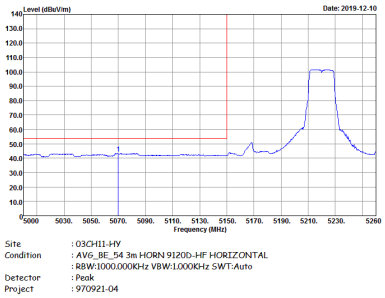
-L	**Low channel location**
-R	**High channel location**

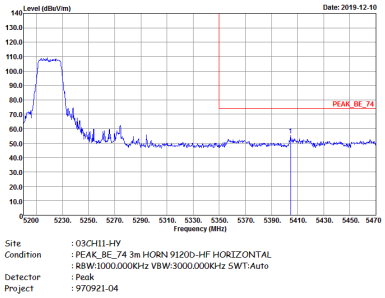
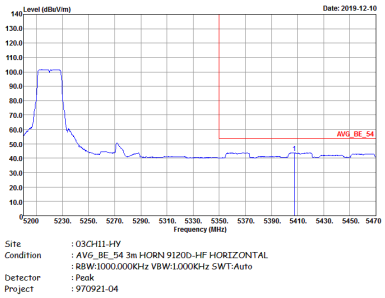
Band 1 - 5150~5250MHz

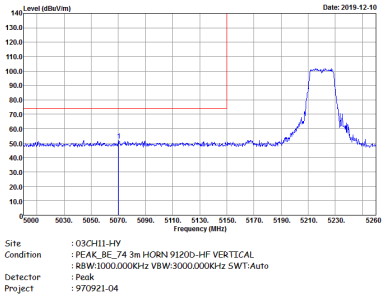
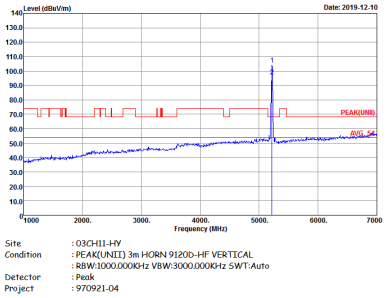
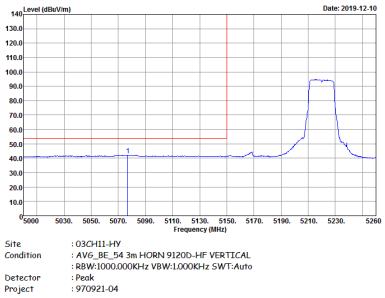
WIFI 802.11n HT20 (Band Edge @ 3m)

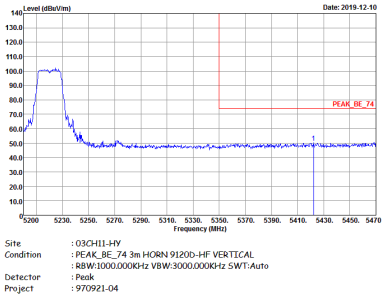
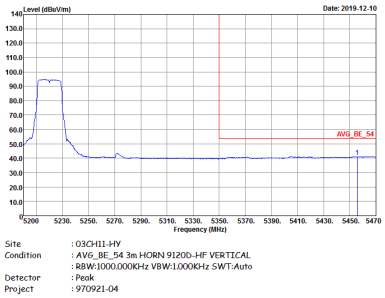
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

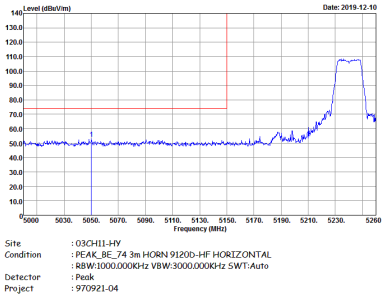
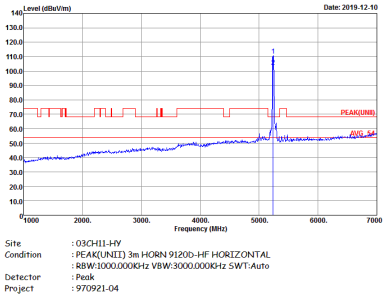
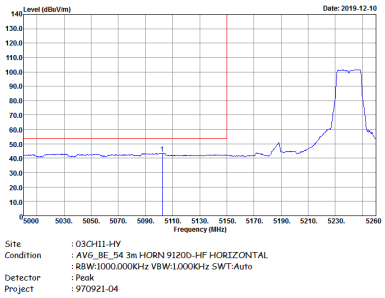
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

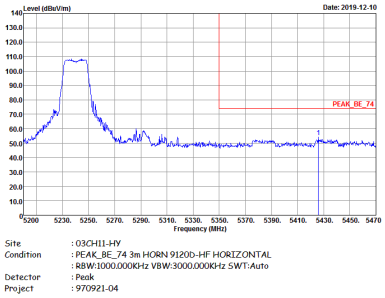
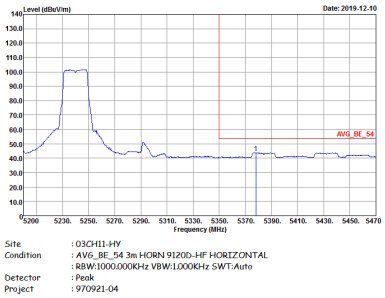
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

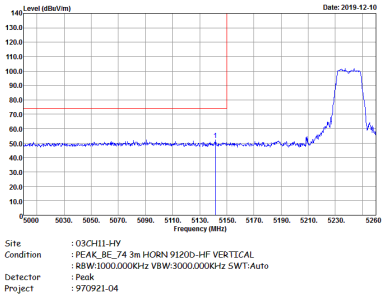
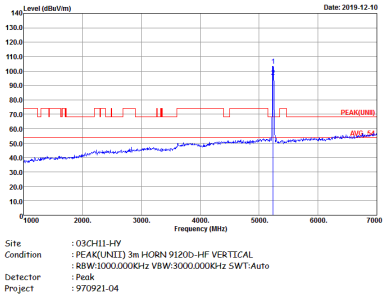
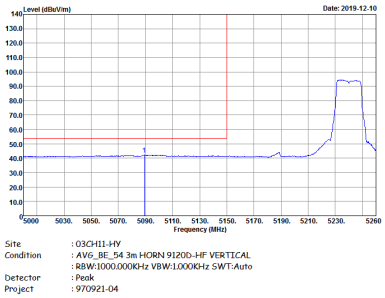
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

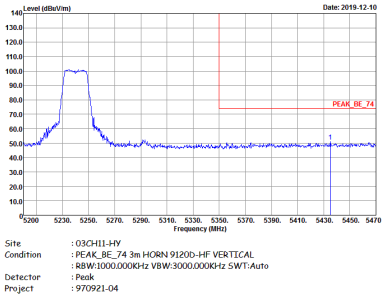
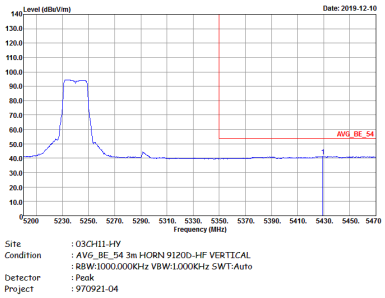
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

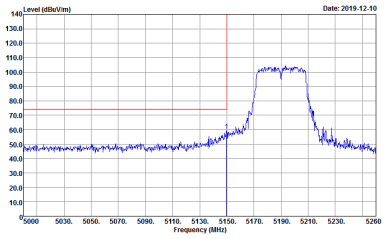
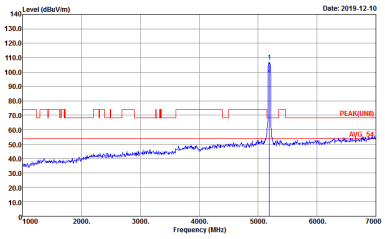
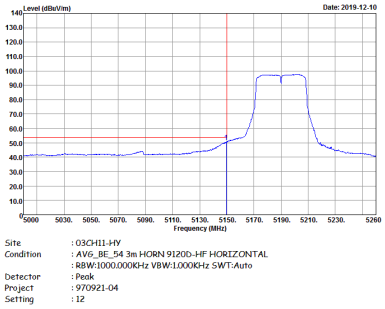
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

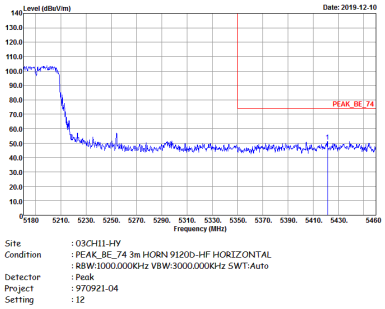
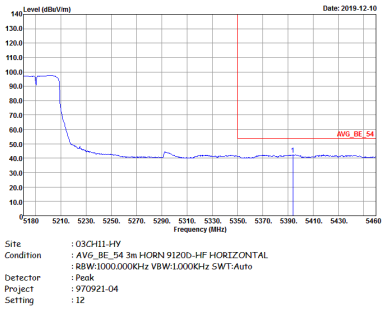
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

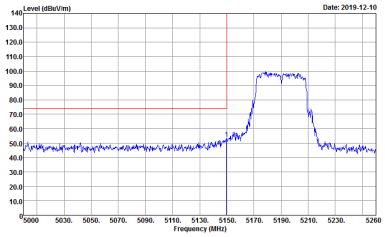
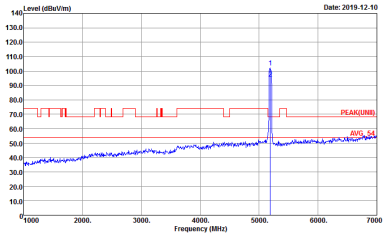
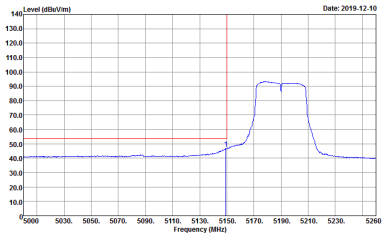
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

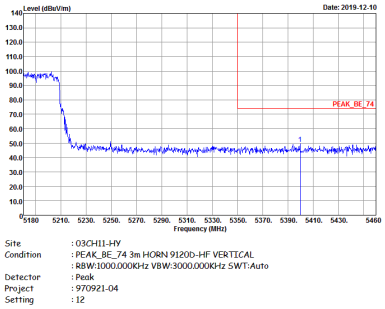
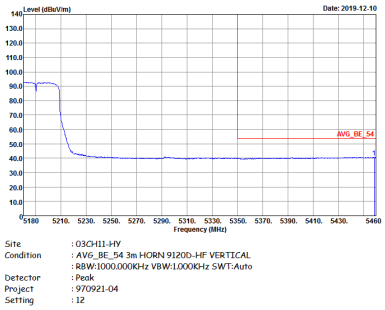
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

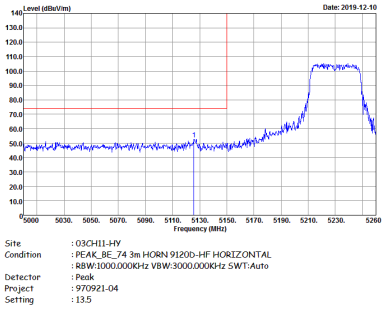
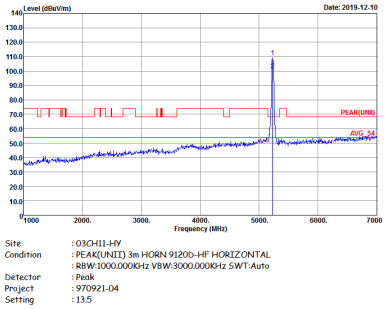
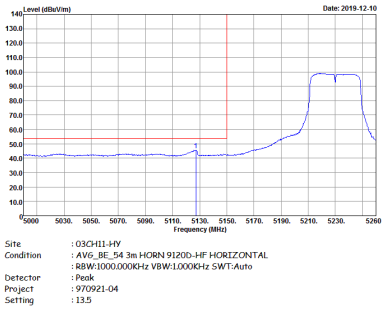
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

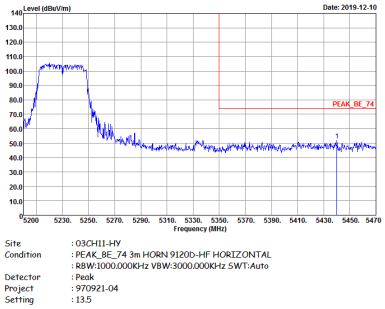
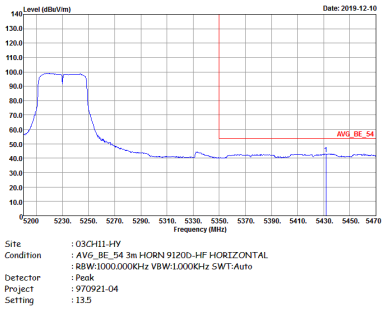
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

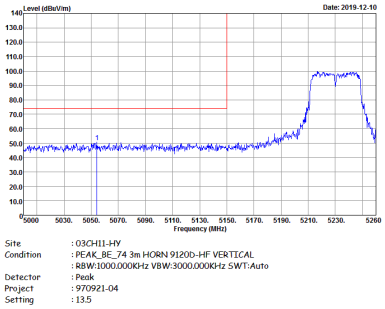
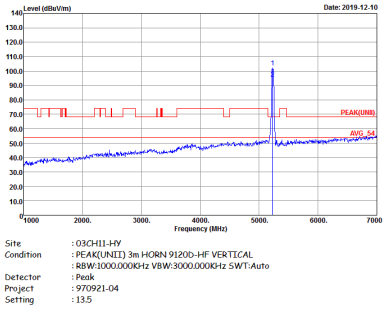
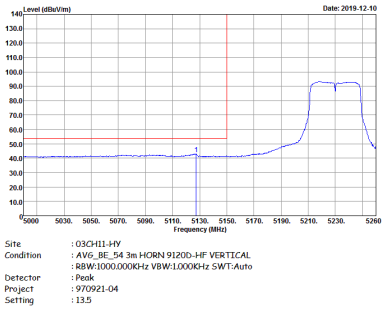
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12	Left blank

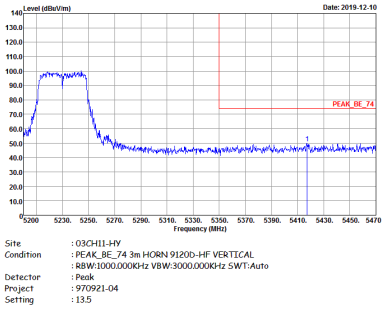
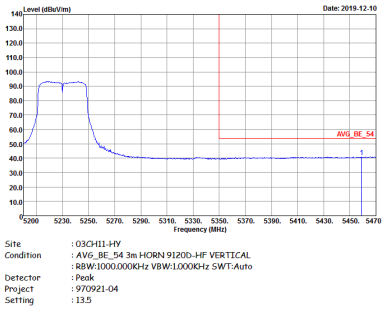
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12	Left blank

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

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

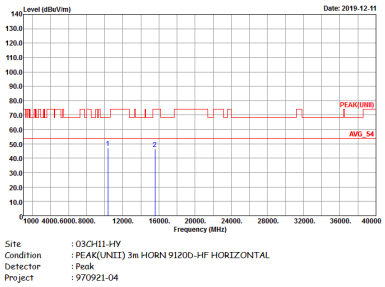
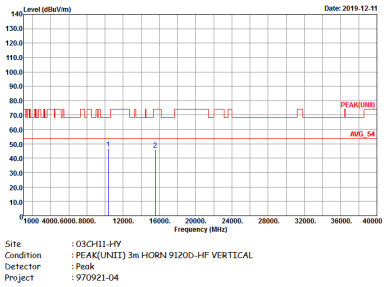
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

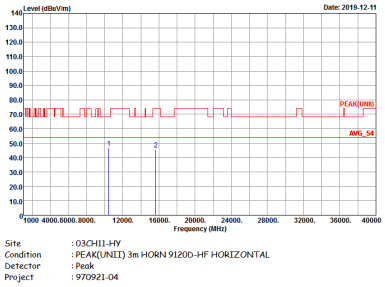
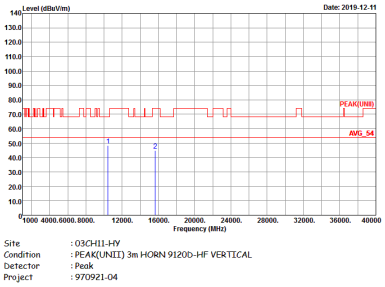
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

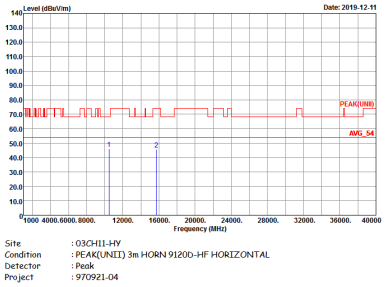
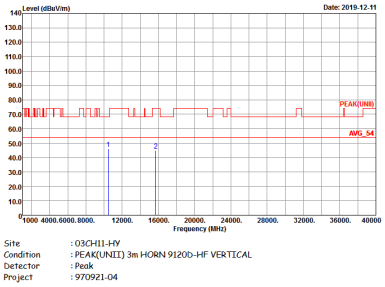
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

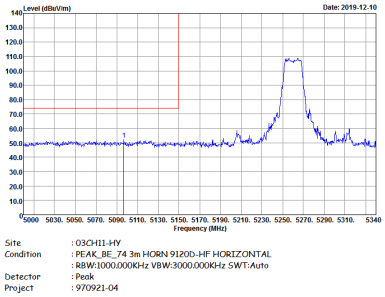
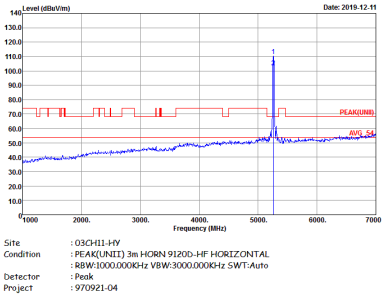
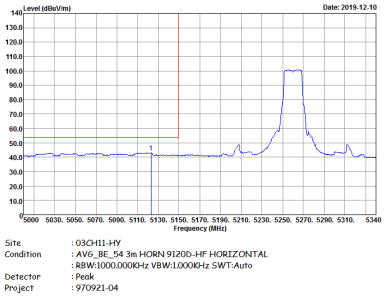
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

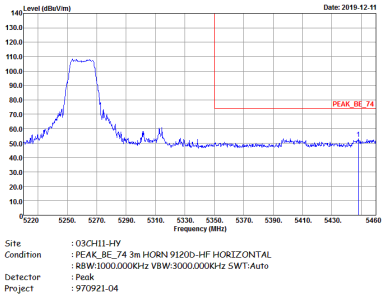
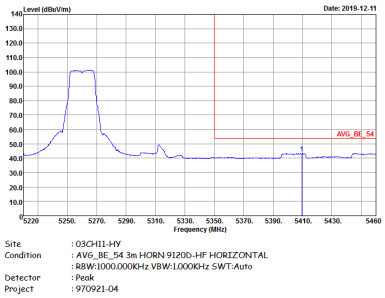
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

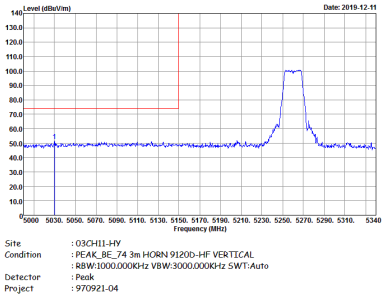
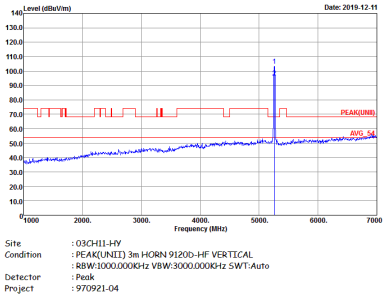
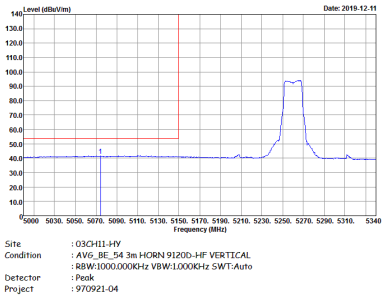
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

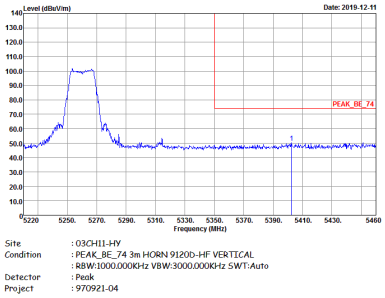
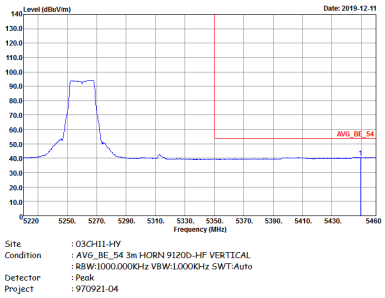
Band 2 - 5250~5350MHz

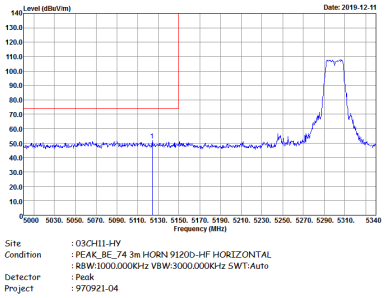
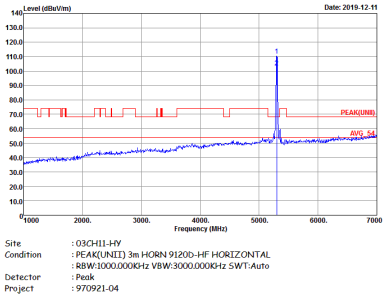
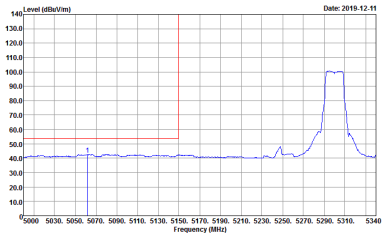
WIFI 802.11a (Band Edge @ 3m)

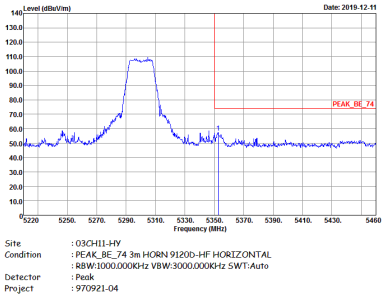
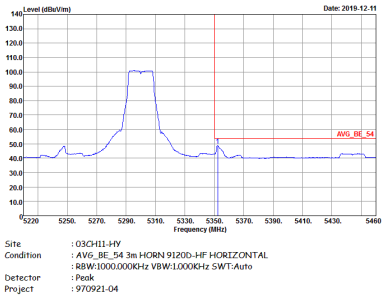
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

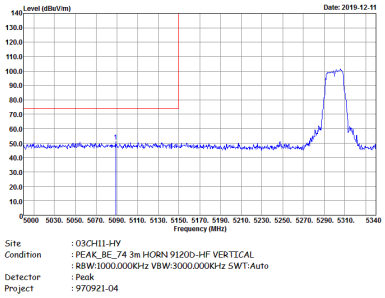
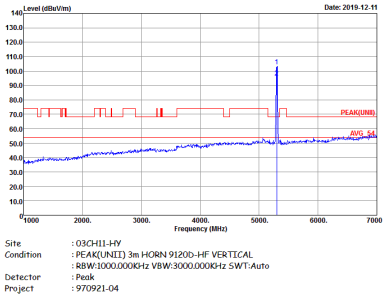
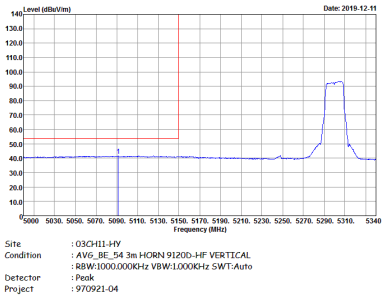
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

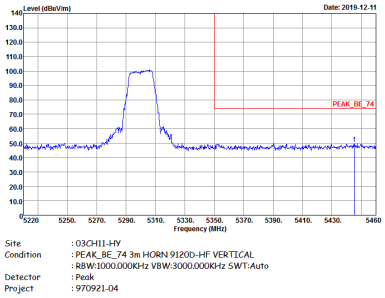
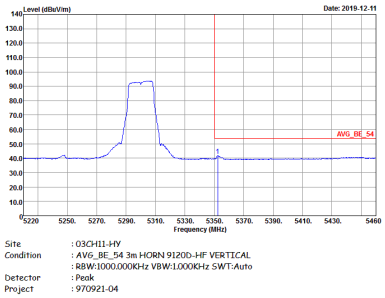
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

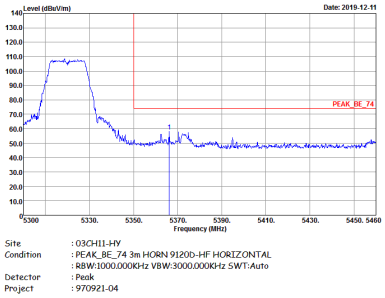
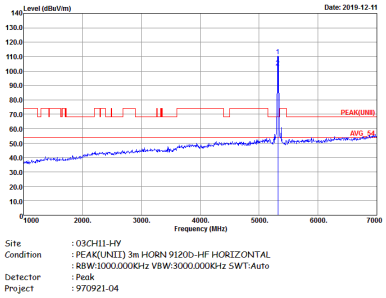
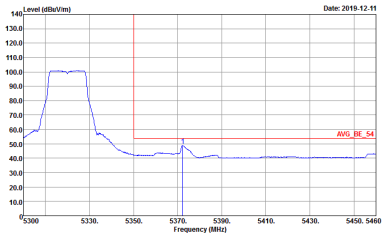
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

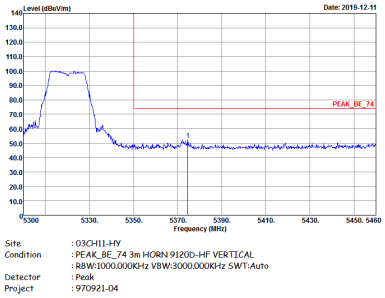
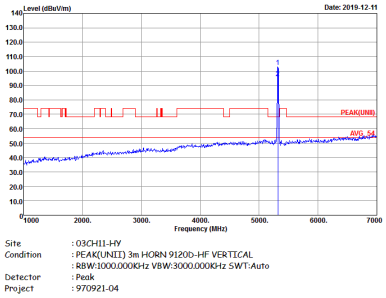
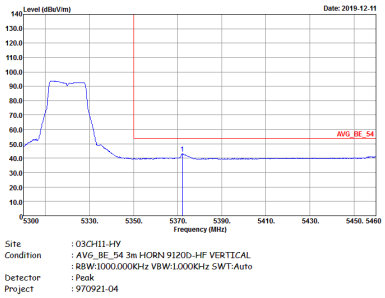
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

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

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

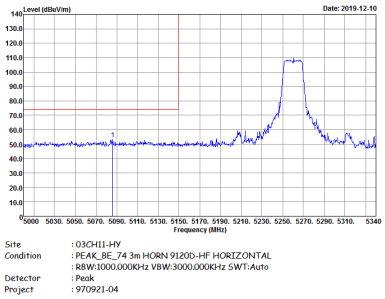
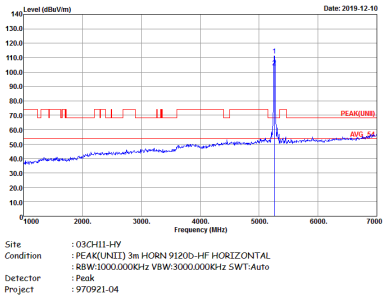
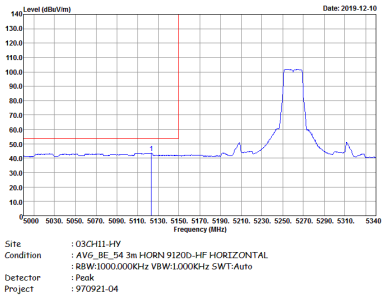
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

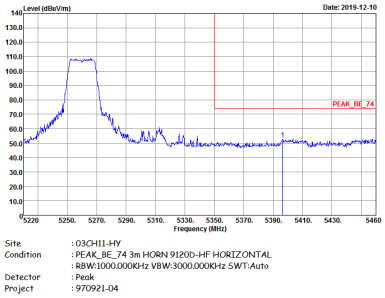
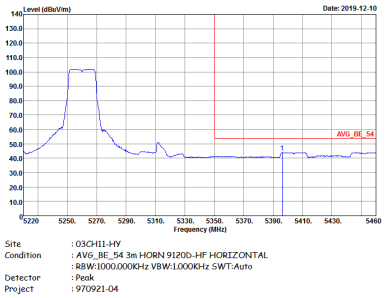
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

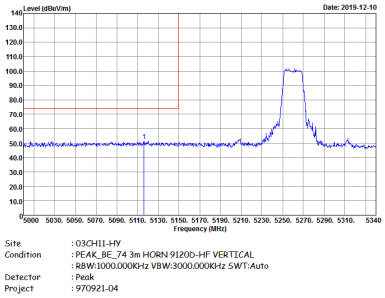
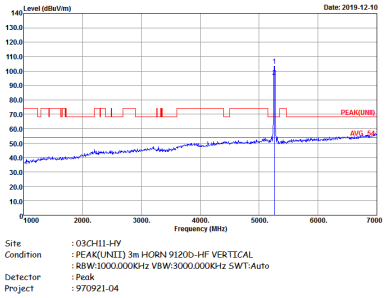
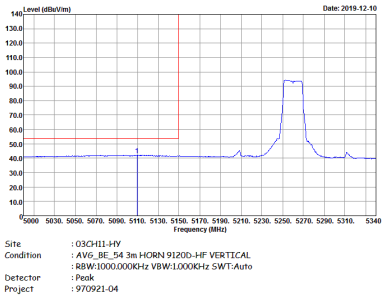
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

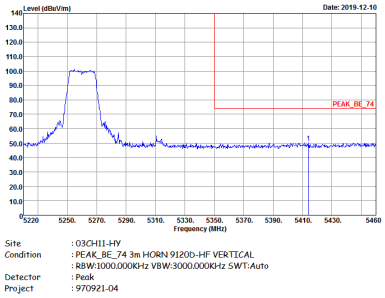
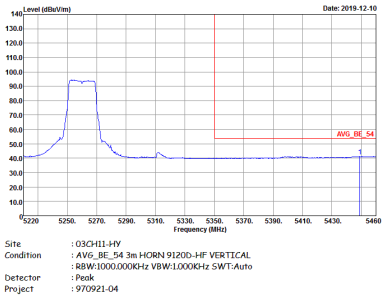
Band 2 5250~5350MHz

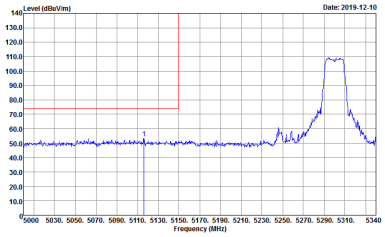
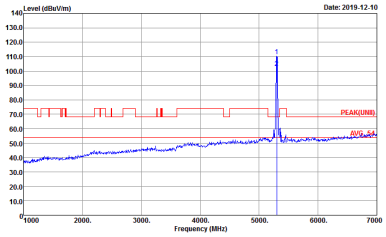
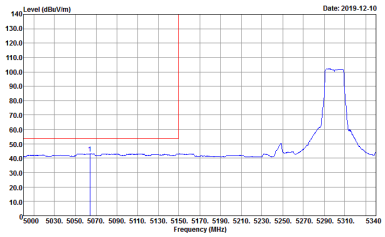
WIFI 802.11n HT20 (Band Edge @ 3m)

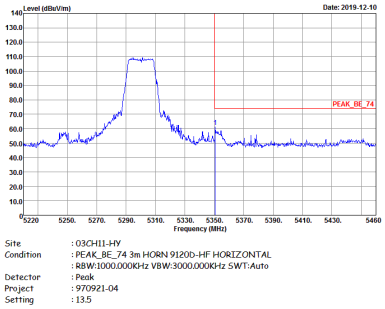
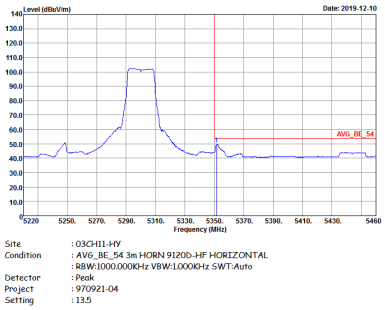
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

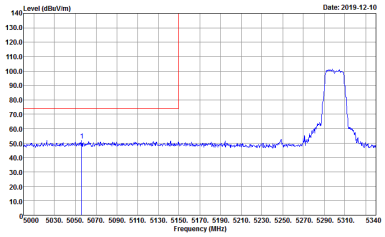
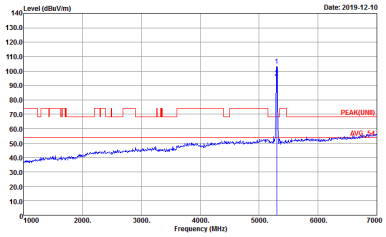
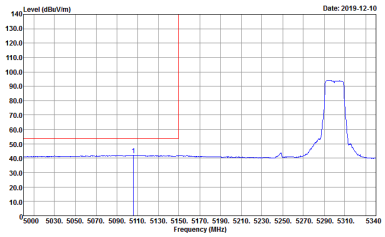
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

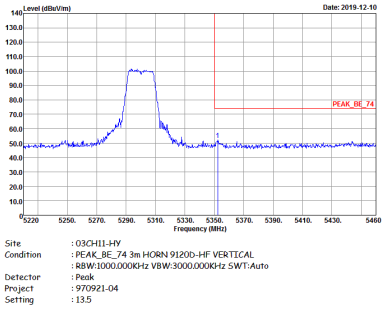
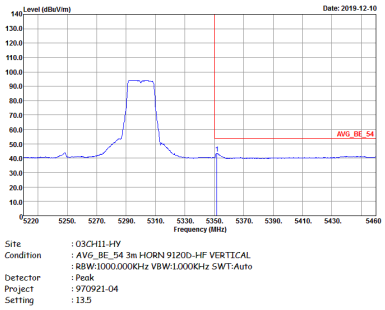
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

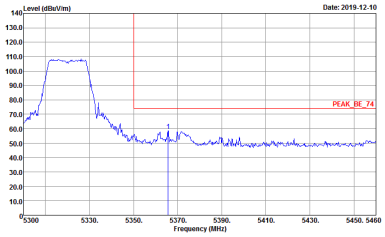
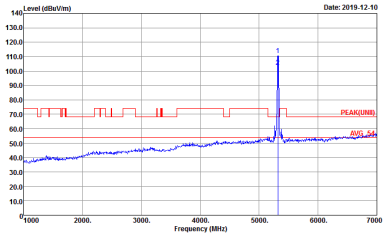
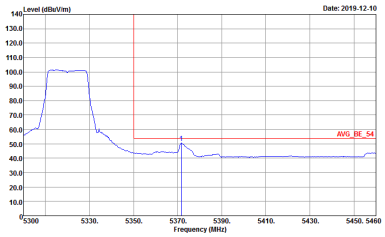
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

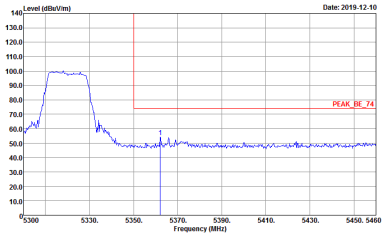
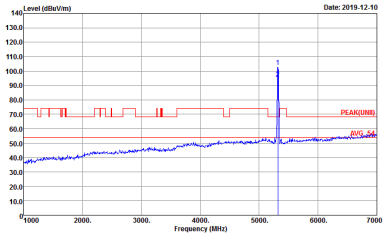
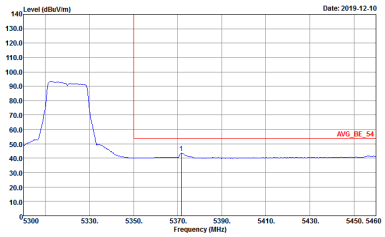
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	Left blank

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

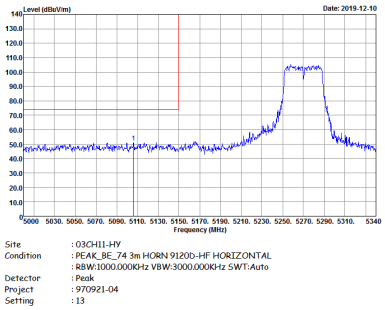
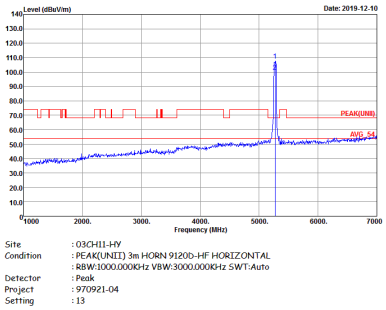
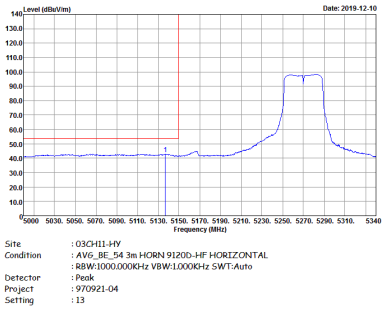
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	Left blank

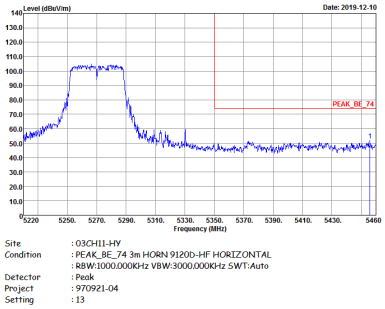
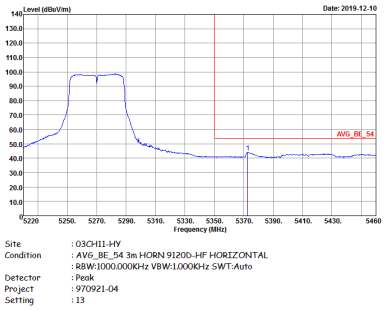
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

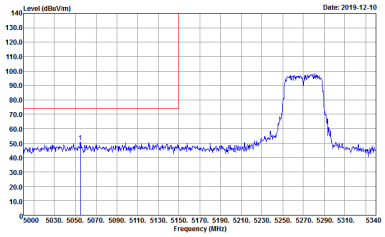
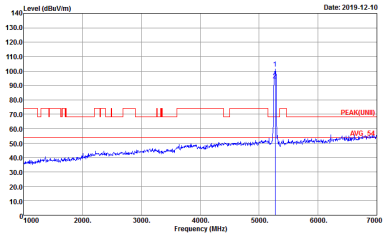
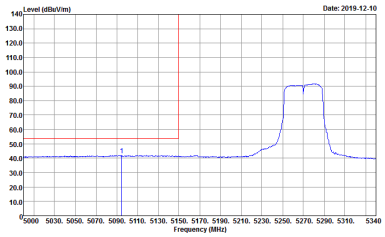
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	Left blank

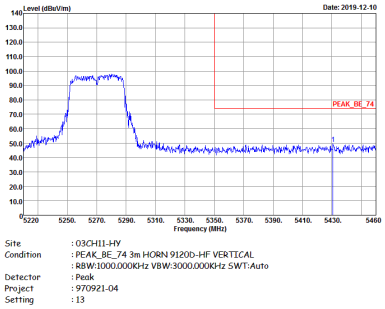
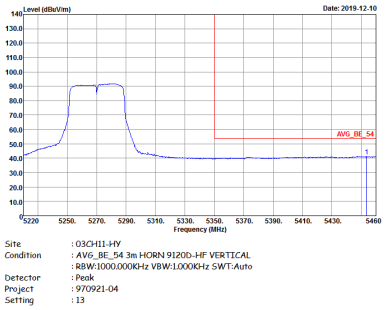
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	Left blank

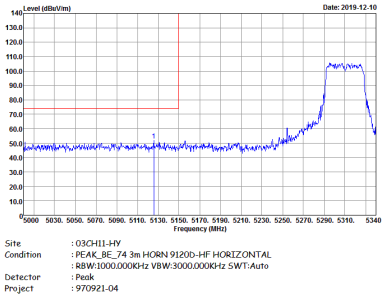
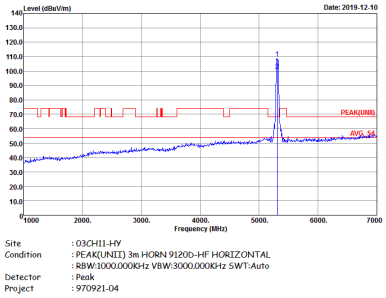
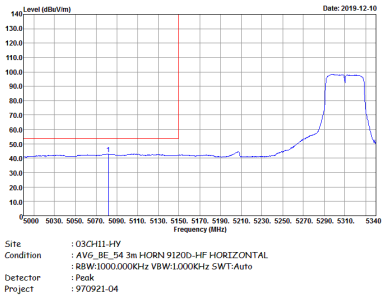
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

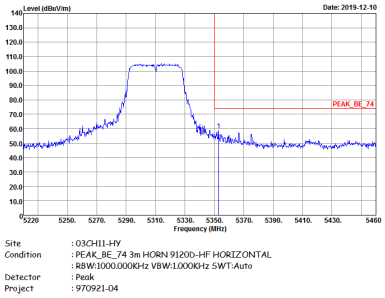
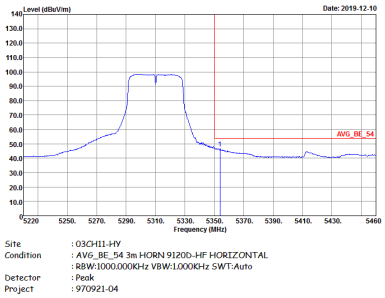
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

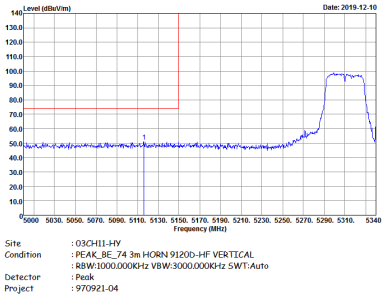
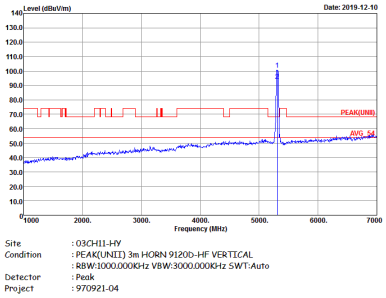
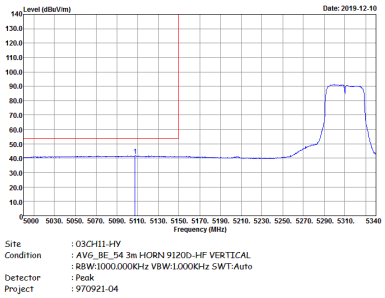
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

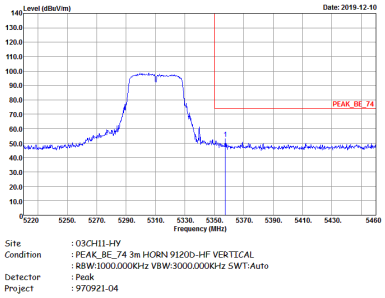
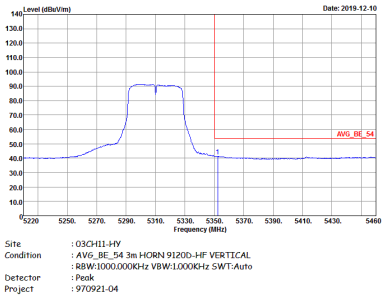
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Vertical	Vertical
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13	Left blank

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

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

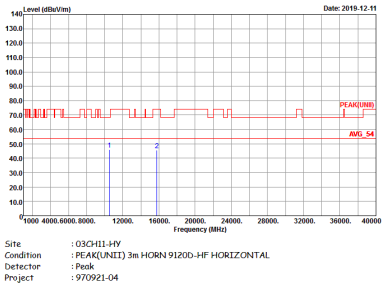
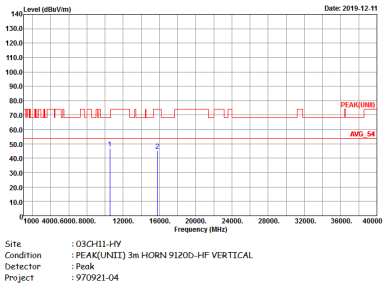
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

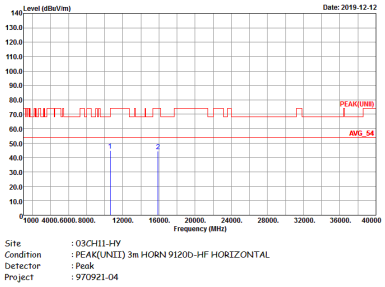
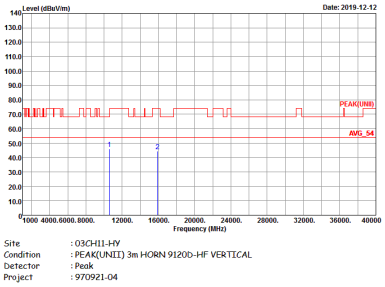
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

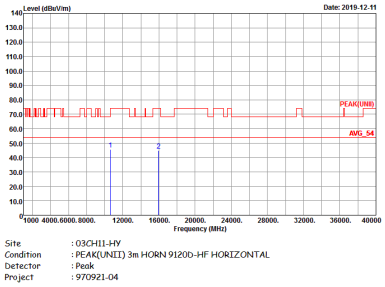
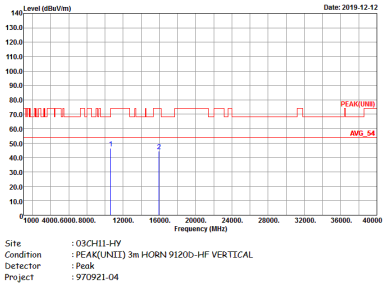
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

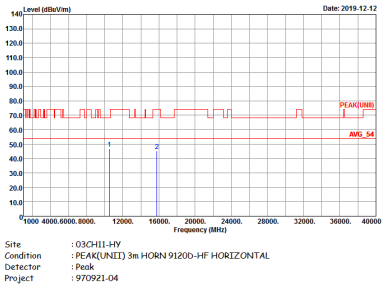
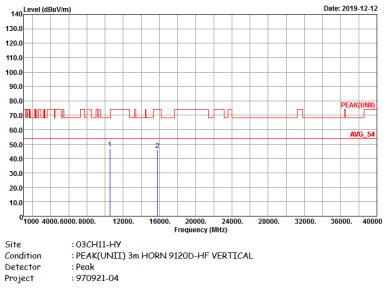
WIFI 802.11a (Harmonic @ 3m)

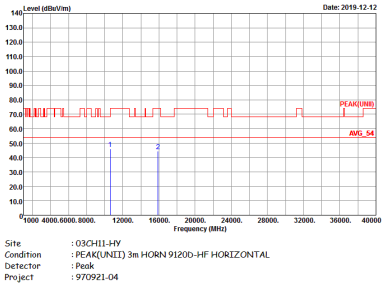
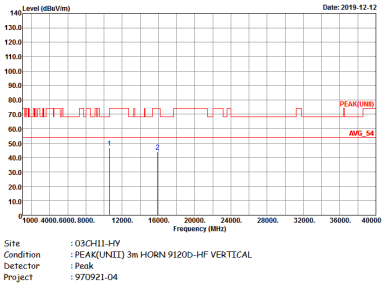
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

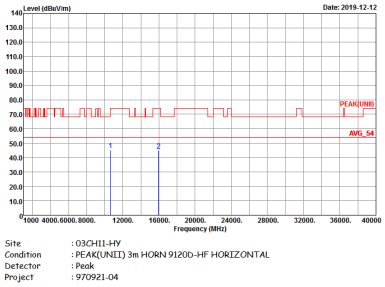
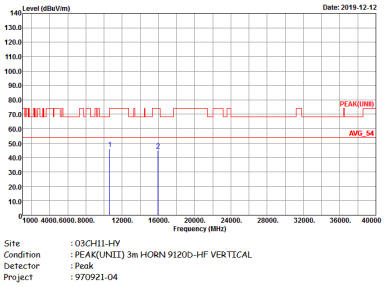
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

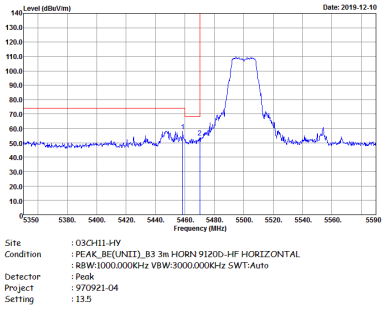
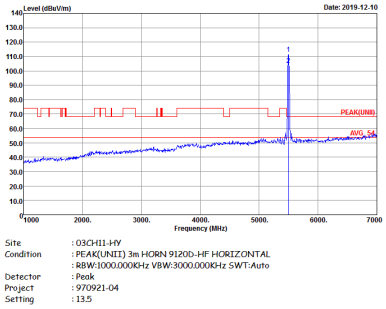
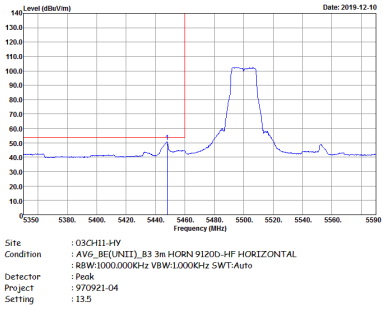
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

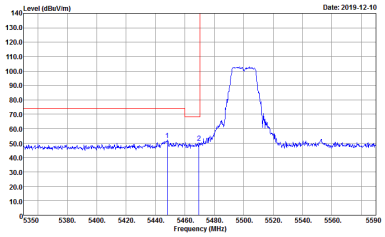
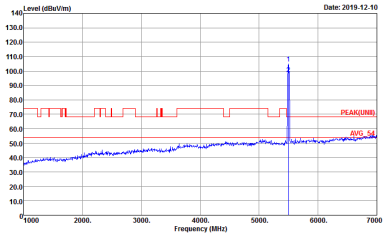
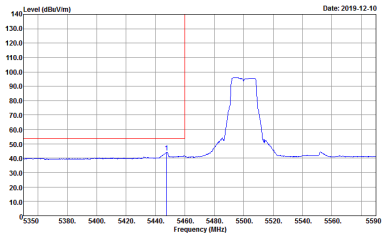
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

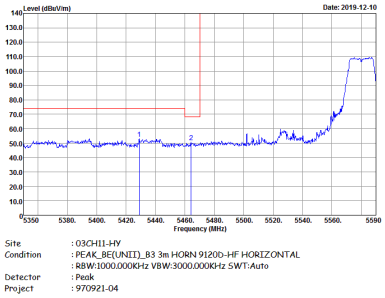
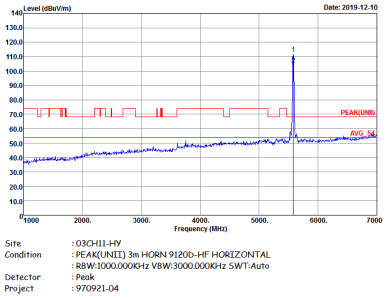
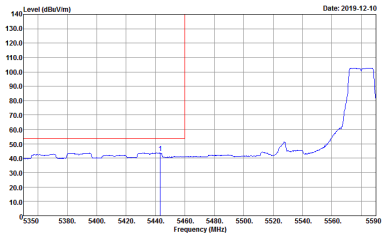
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

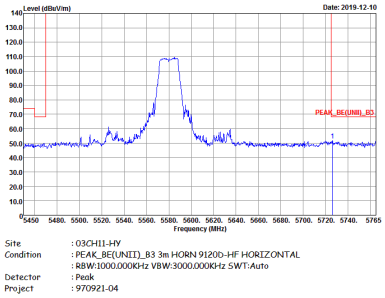
Band 3 - 5470~5725MHz

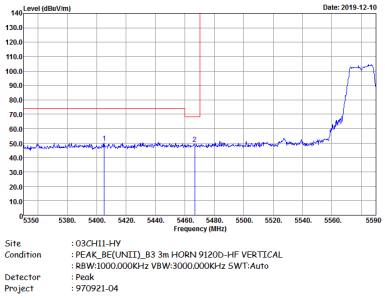
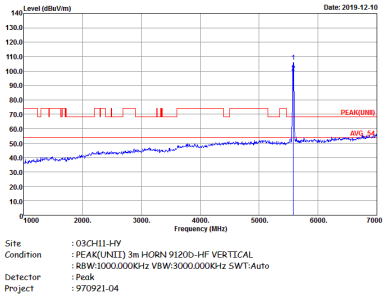
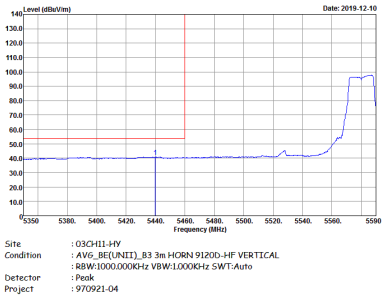
WIFI 802.11a (Band Edge @ 3m)

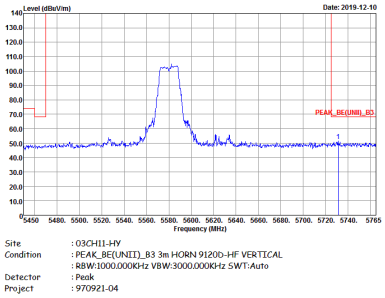
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

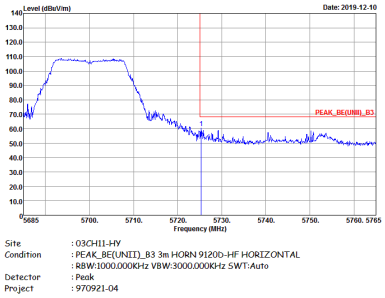
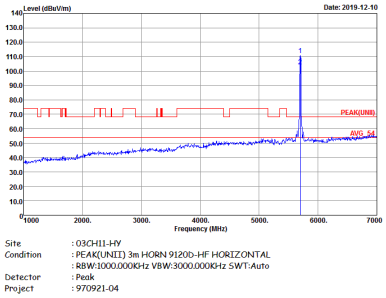
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 13.5	Left blank

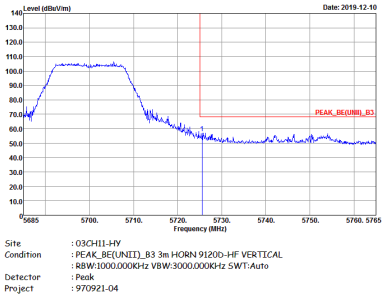
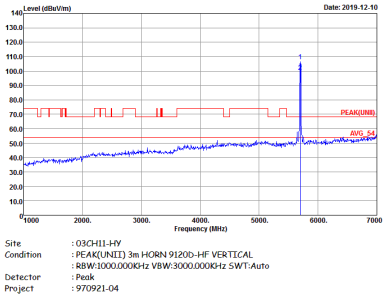
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

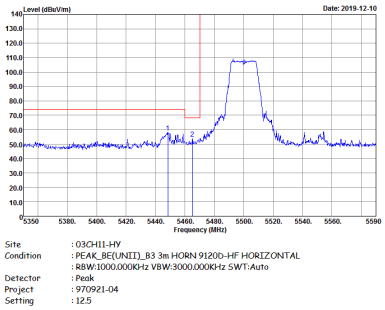
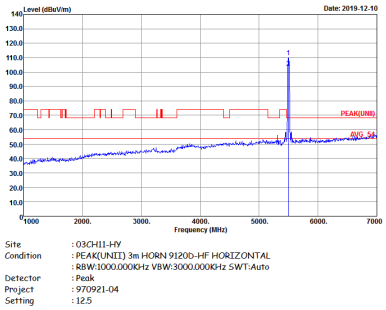
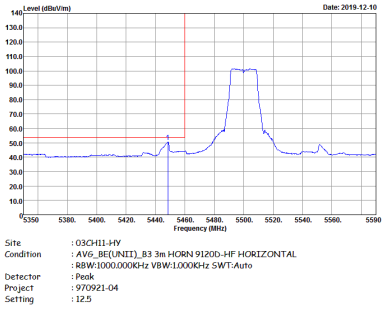
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

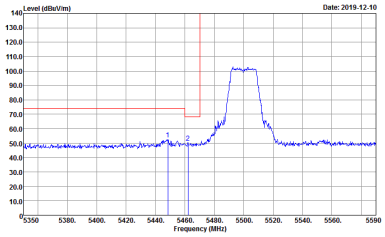
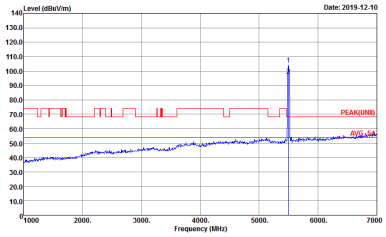
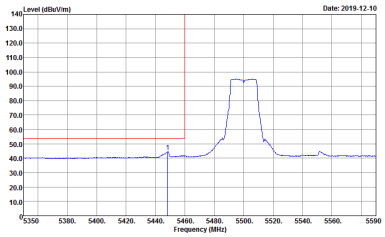
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

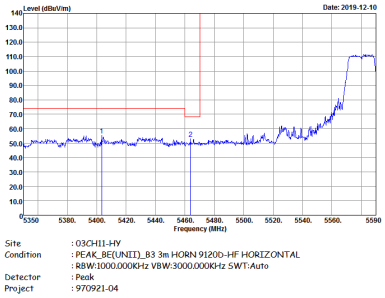
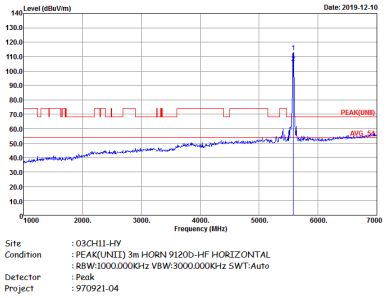
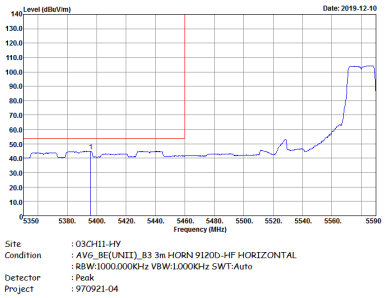
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

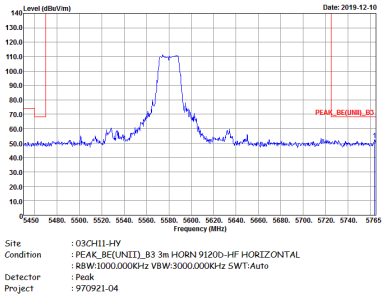
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

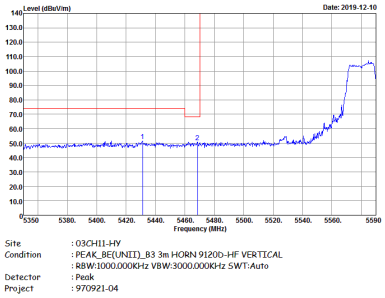
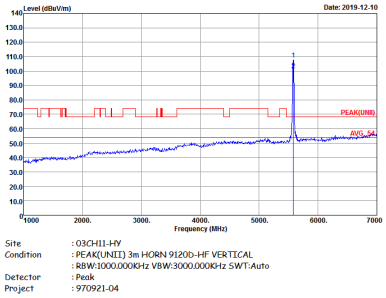
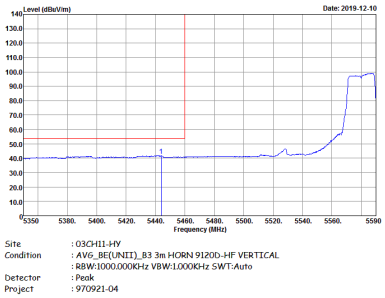
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

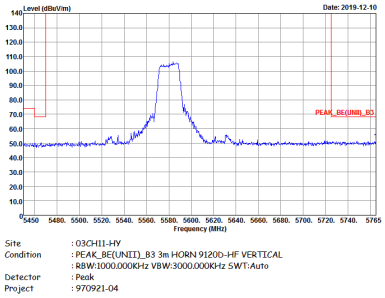
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

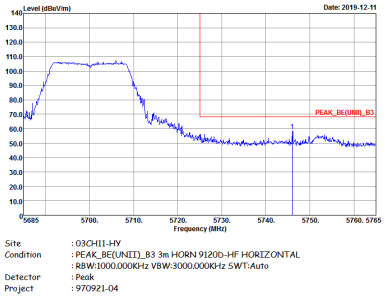
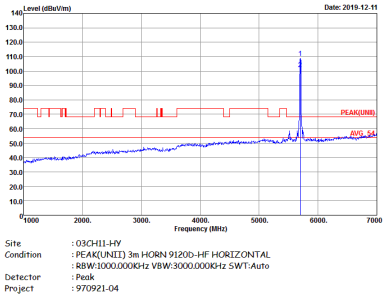
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 12.5	Left blank

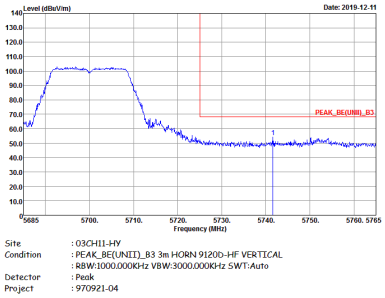
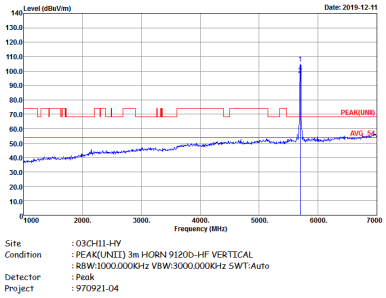
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

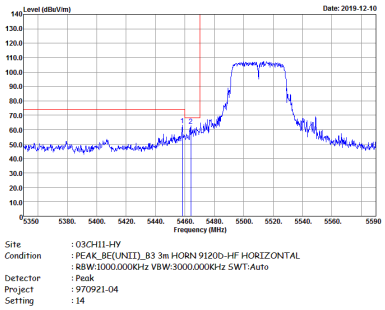
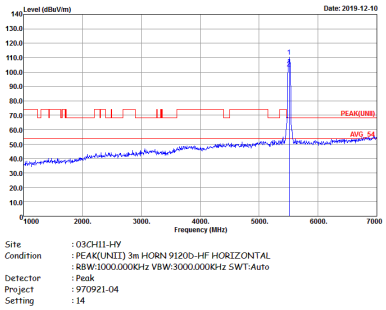
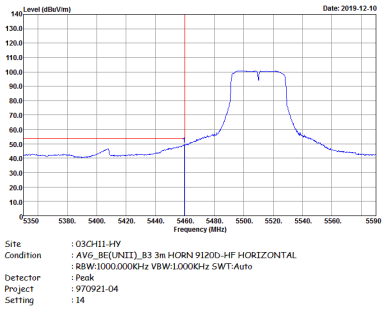
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

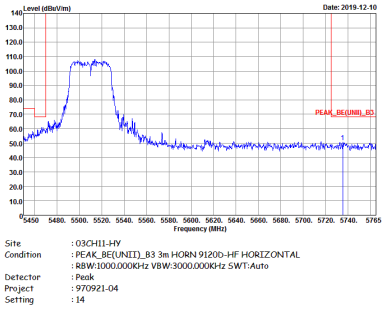
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

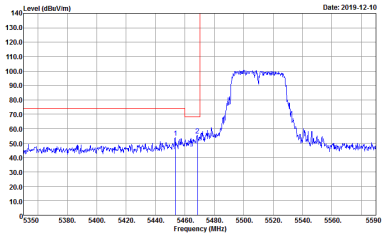
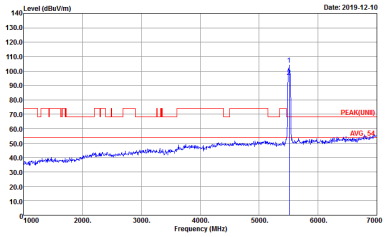
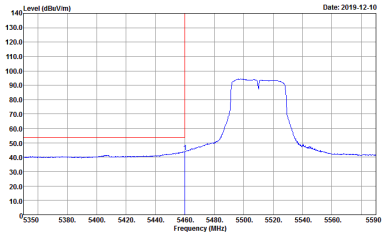
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

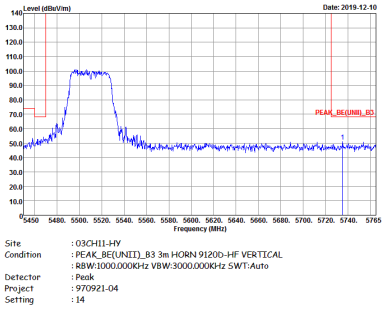
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

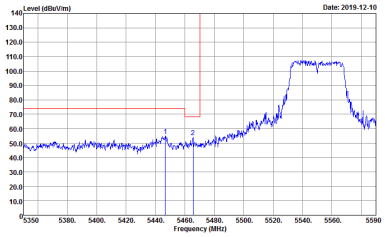
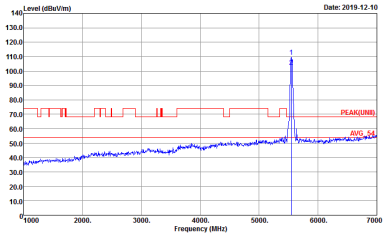
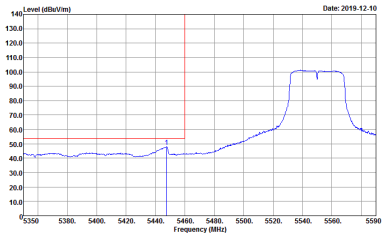
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

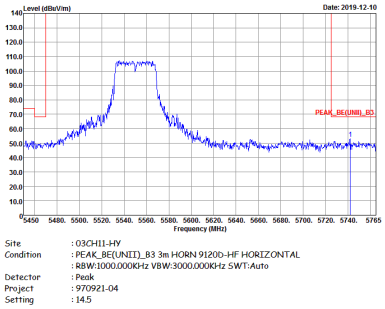
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

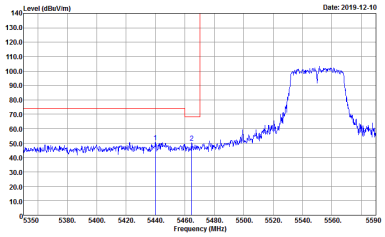
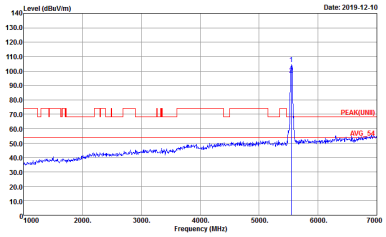
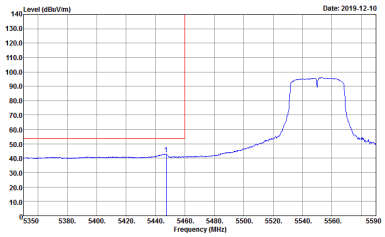
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

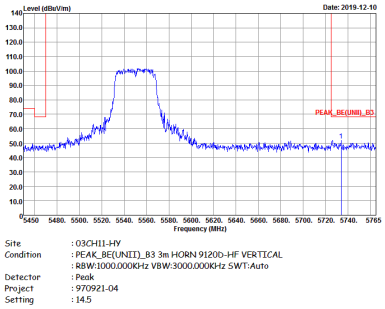
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14
Avg.	 Site : 03CH11-HV Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14	Left blank

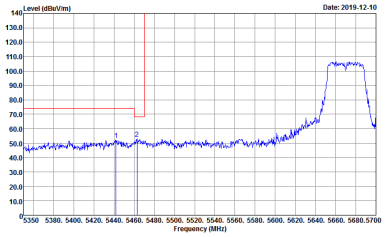
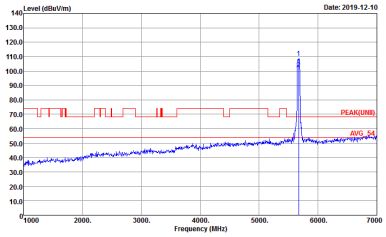
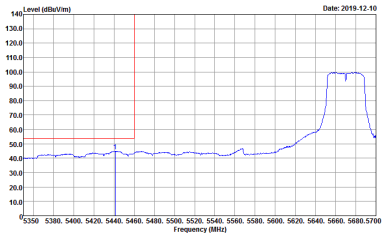
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14	Left blank

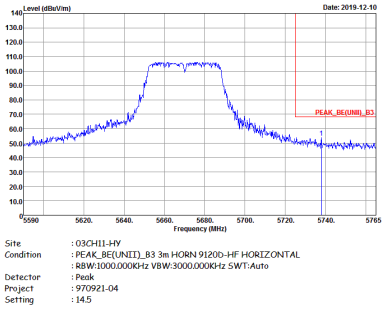
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	Left blank

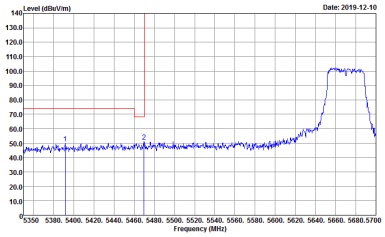
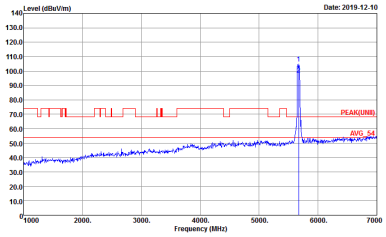
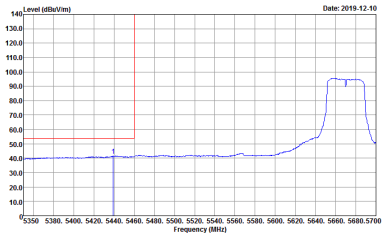
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	Left blank

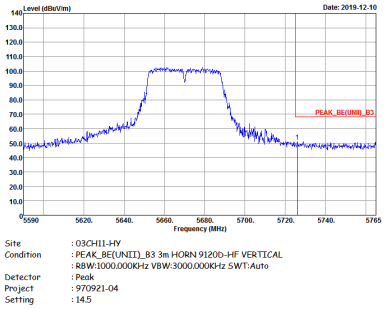
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
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 : 970921-04 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	Left blank

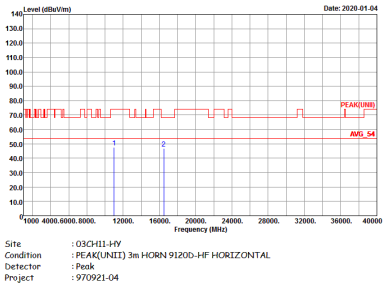
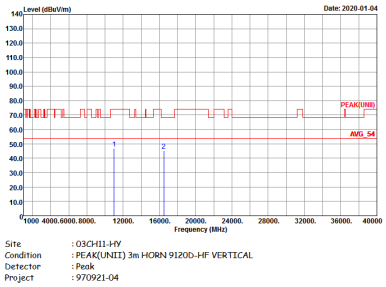
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

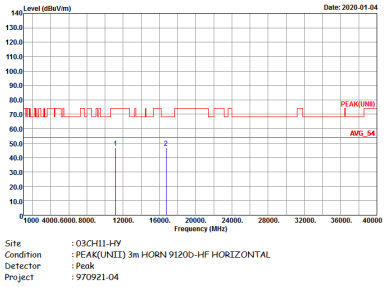
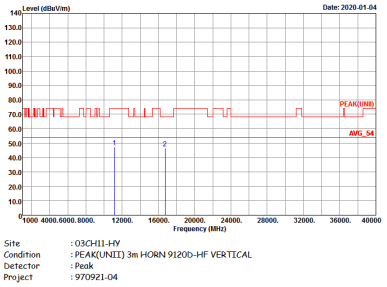
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 970921-04 Setting : 14.5	Left blank

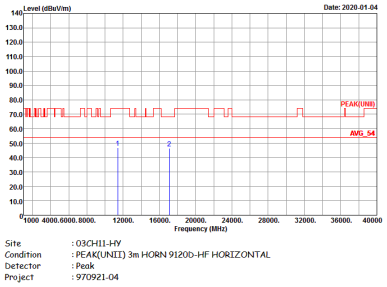
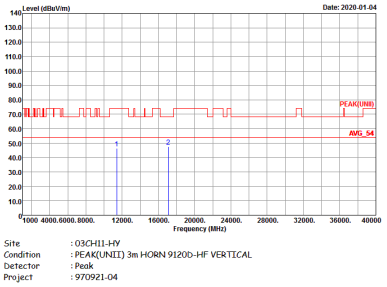
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

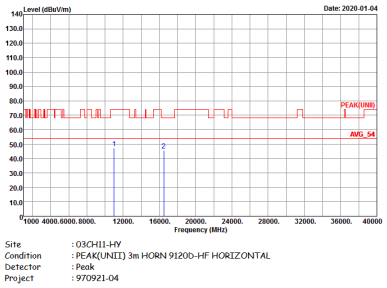
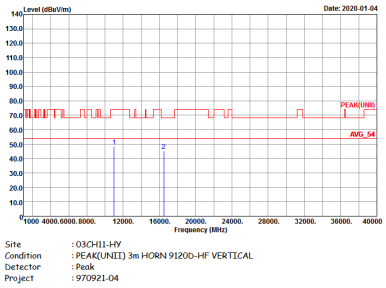
WIFI 802.11a (Harmonic @ 3m)

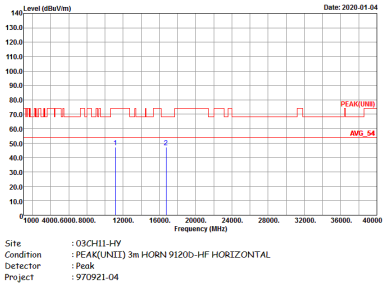
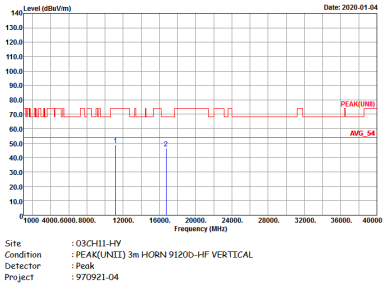
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

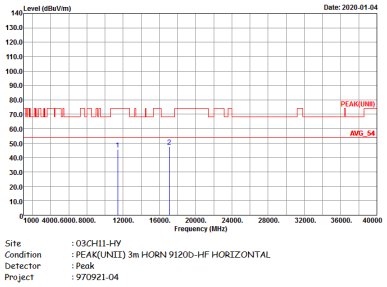
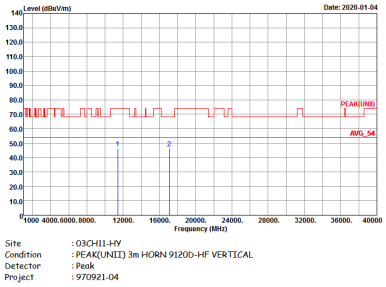
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

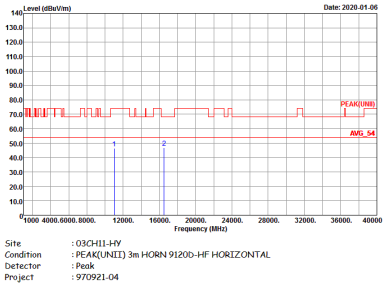
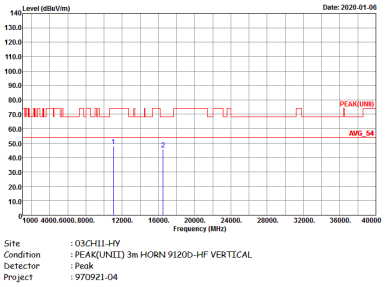
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

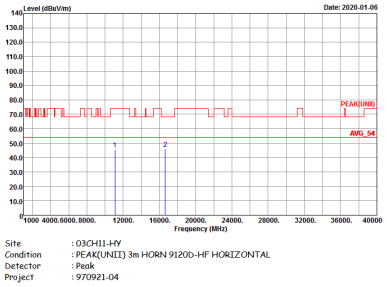
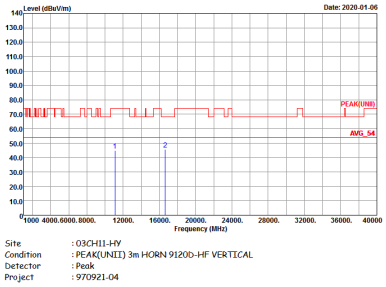
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

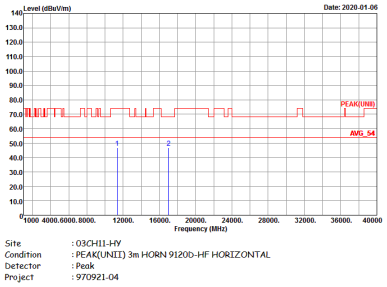
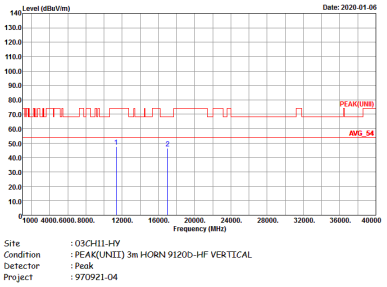
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 970921-04	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 970921-04

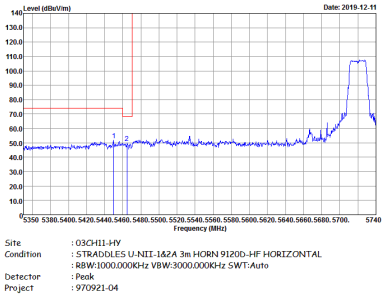
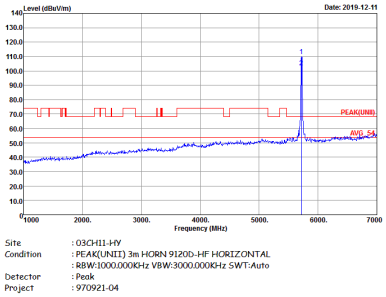
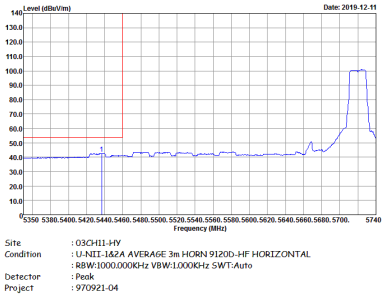
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 970921-04	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 970921-04

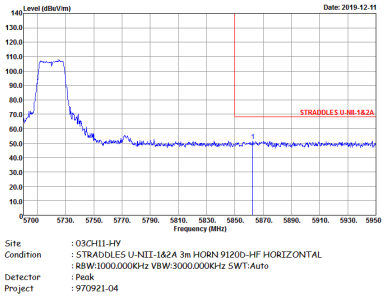
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

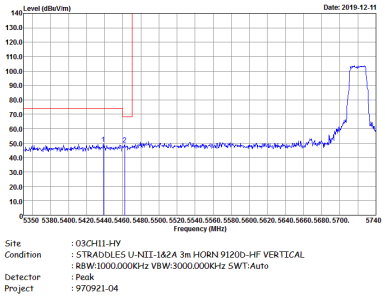
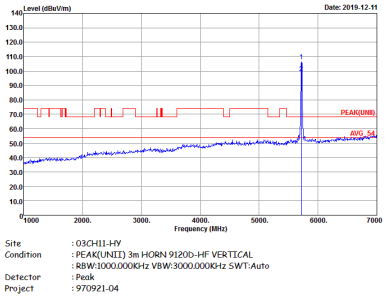
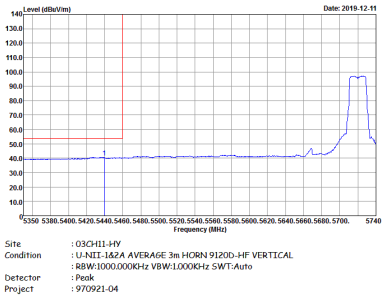
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

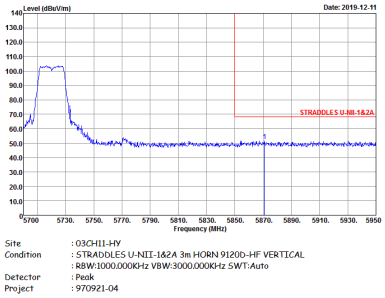
Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

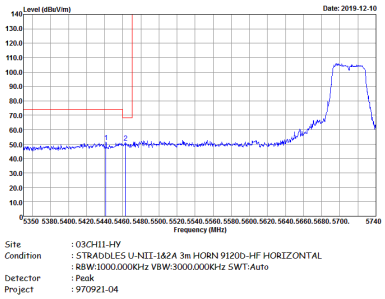
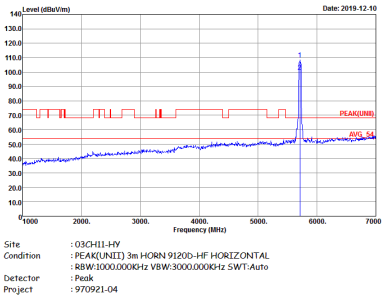
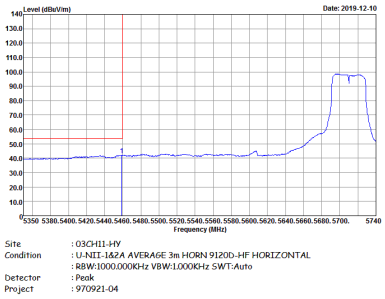
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

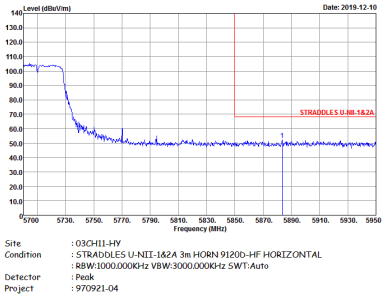
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : STRADDLES U-NII-1&2A 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

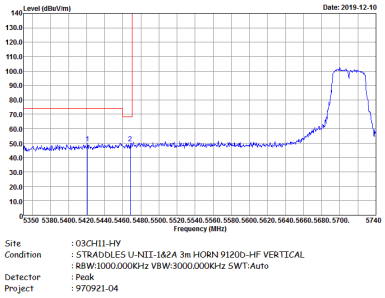
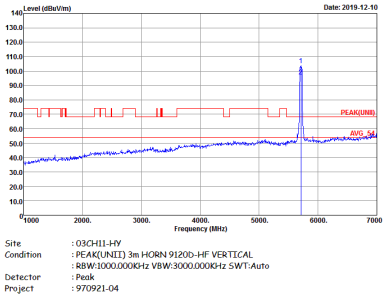
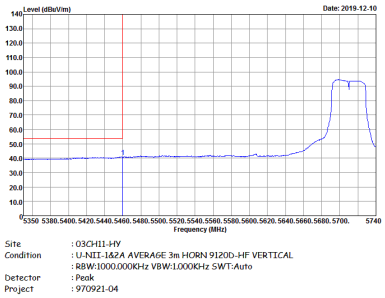
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

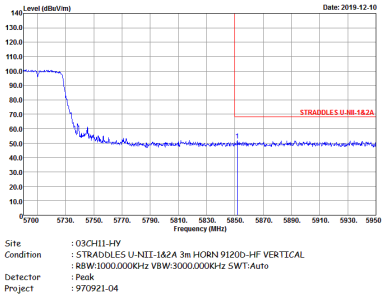
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : STRADDLES U-NII-1&2A 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 970921-04	Left blank

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

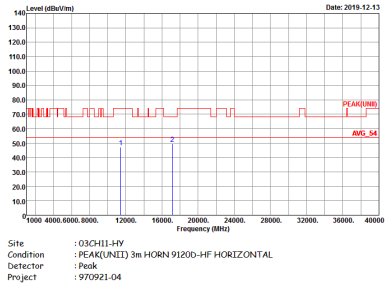
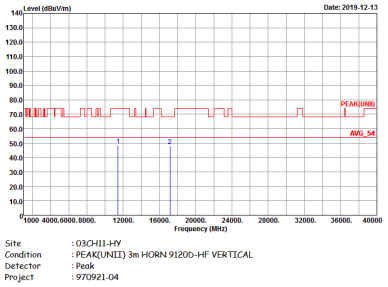
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

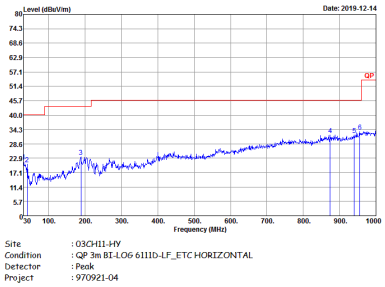
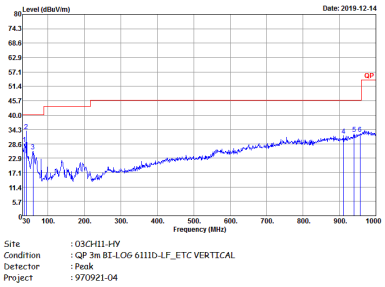
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
1	Vertical	Fundamental
Peak		Left blank

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

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

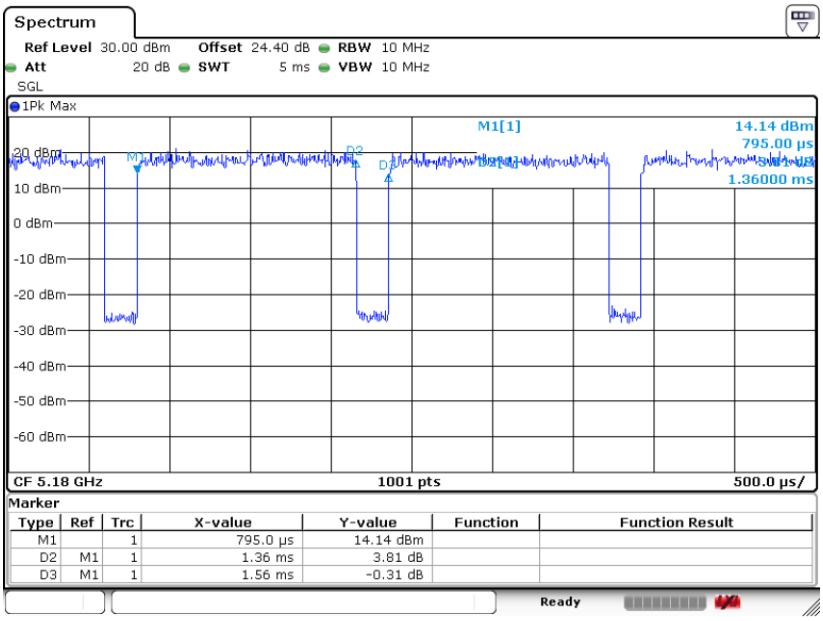
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak		

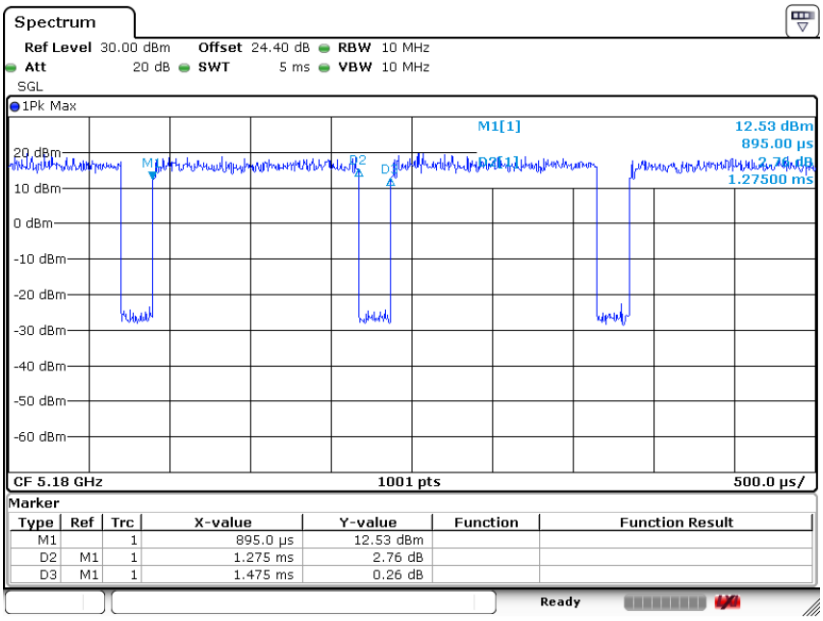
Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11a	87.18	1360.00	0.74	1kHz	0.60
5GHz 802.11n HT20	86.44	1275.00	0.78	1kHz	0.63
5GHz 802.11n HT40	85.96	1225.00	0.82	1kHz	0.66

802.11a



802.11n HT20



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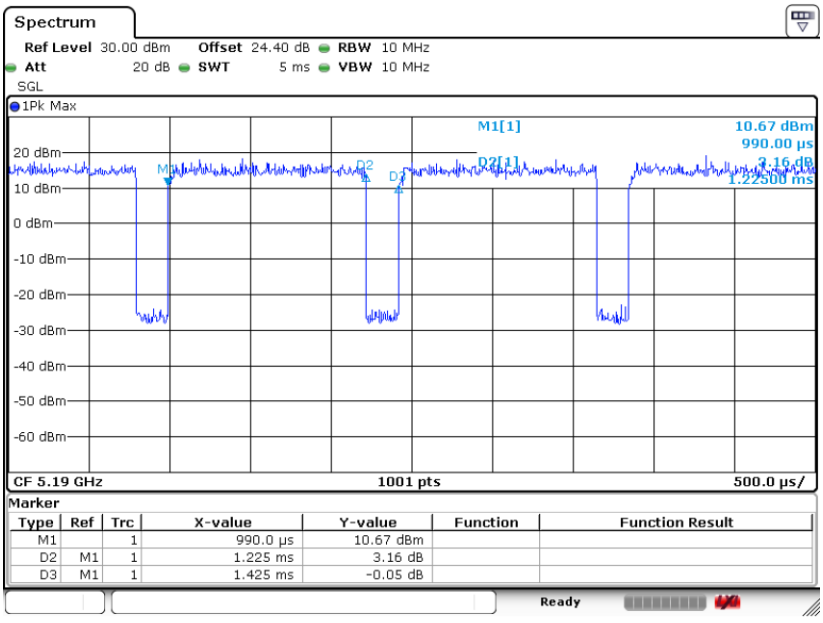
802.11n HT40



Date: 2.DEC.2019 15:08:10