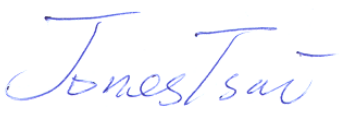
FCC RADIO TEST REPORT

FCC ID	:	**PY7-35228T**
Equipment	:	**GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII a/b/g/n/ac and NFC**
Brand Name	:	**Sony**
Applicant	:	**Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan**
Manufacturer	:	**Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Aug. 31, 2018 and testing was started from Sep. 14, 2018 and completed on Nov. 26, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR882923-01E	01	Initial issue of report	Dec. 10, 2018
FR882923-01E	02	Revising antenna information.	Dec. 21, 2018

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 3.18 dB at 5734-120 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 10.85 dB at 1.068 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GNSS.

Standards-related Product Specification	
Antenna Type	PIFA Antenna
Antenna Type / Gain	**<5150 MHz ~ 5250 MHz>** -4.50 dBi **<5250 MHz ~ 5350 MHz>** -4.18 dBi **<5470 MHz ~ 5725 MHz>** -1.90 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	1.129	CQ3001BTLD	RF conducted measurement
		CQ3001BN5M	Radiated Spurious Emission
		CQ3001BMVB	AC Conducted Emission

Accessory List	
AC Adapter	Model Name: UCH32
	S/N: 6218W30200215 (for radiated emission) 6218W30200140 (for conducted emission)
Earphone	Model Name: MH410c
	S/N: N/A
USB Cable	Model Name: UCB24
	S/N: N/A

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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

1.3 Testing Location

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

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

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

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

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

1.4 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

Note:

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

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Earphone + Battery + 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	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

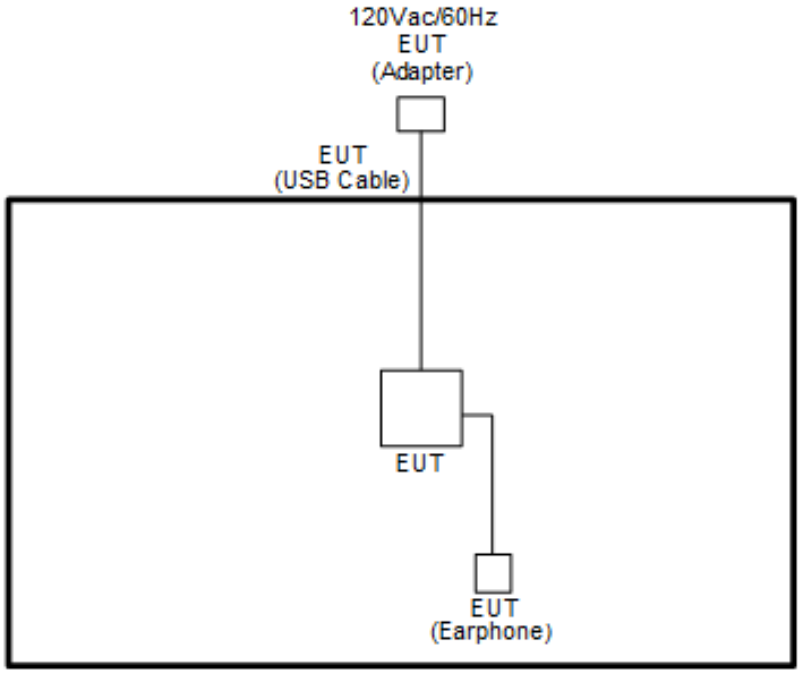
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

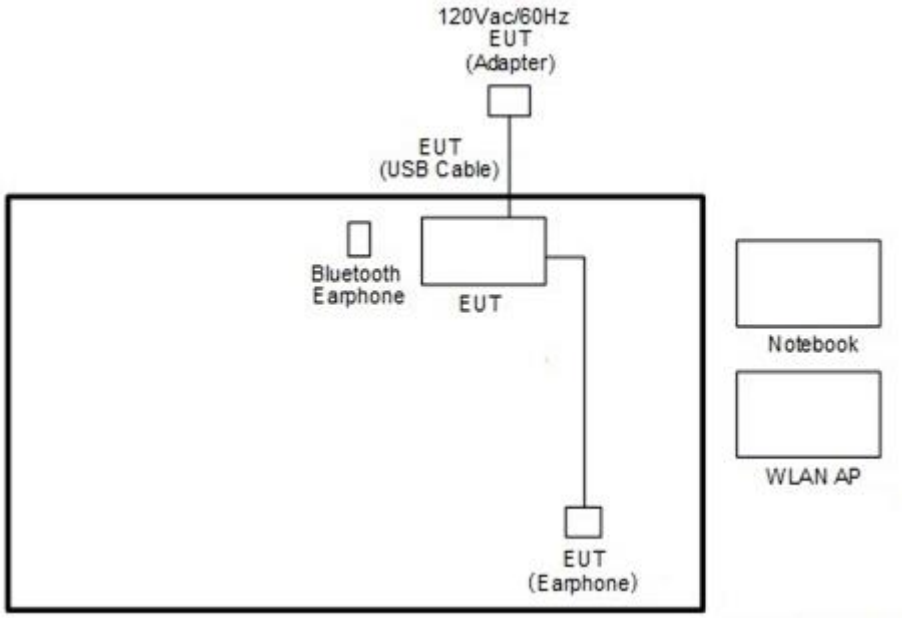
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-
Straddle		-	-	138

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emissions Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
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
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

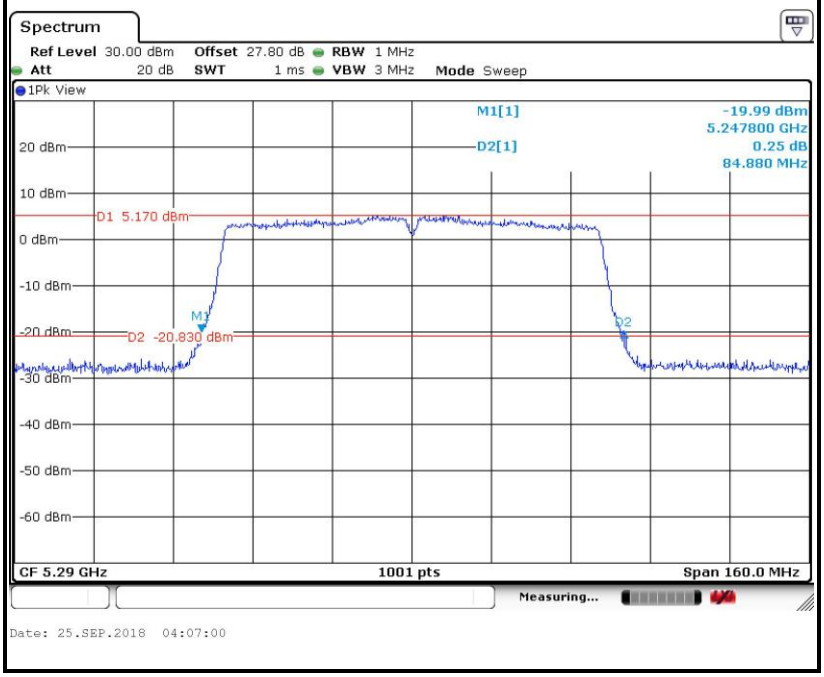
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

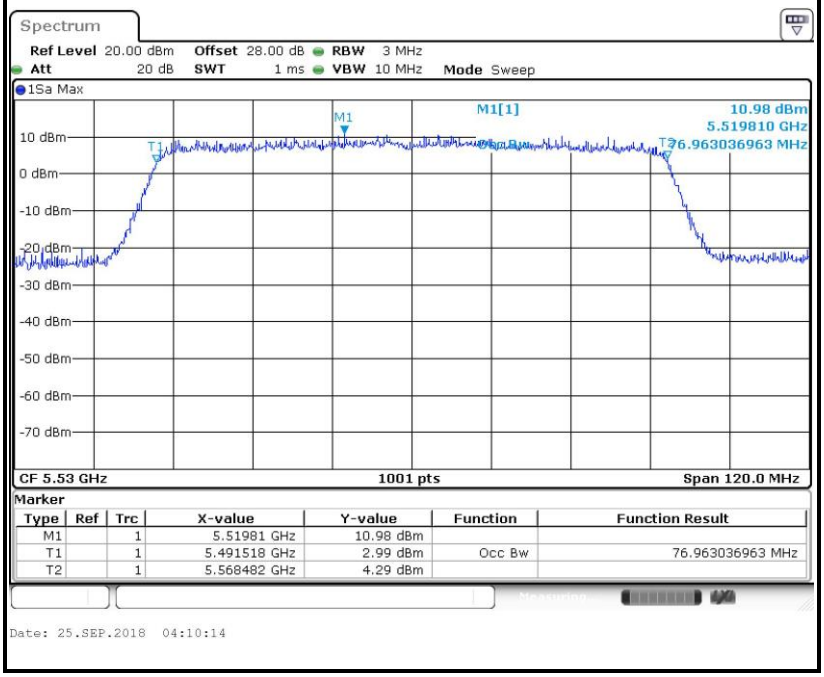
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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

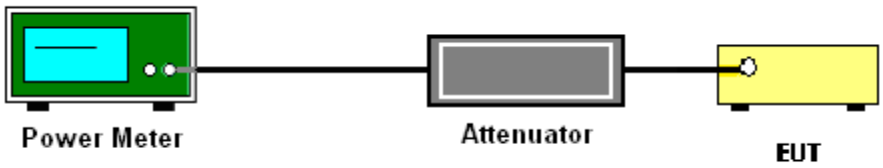
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

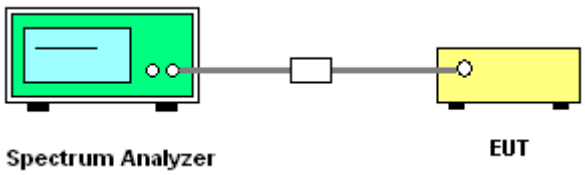
 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

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

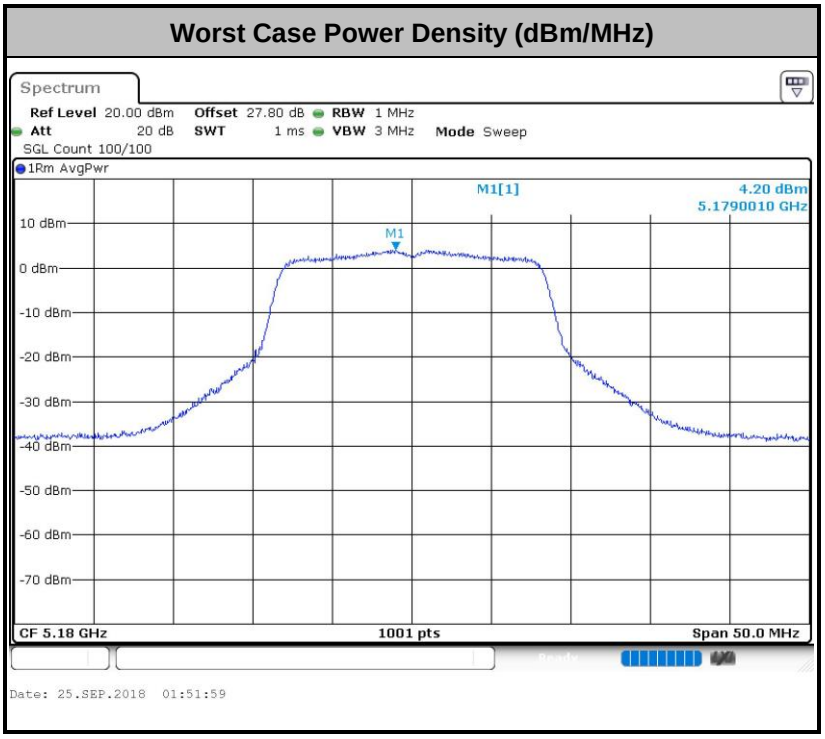
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

   Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

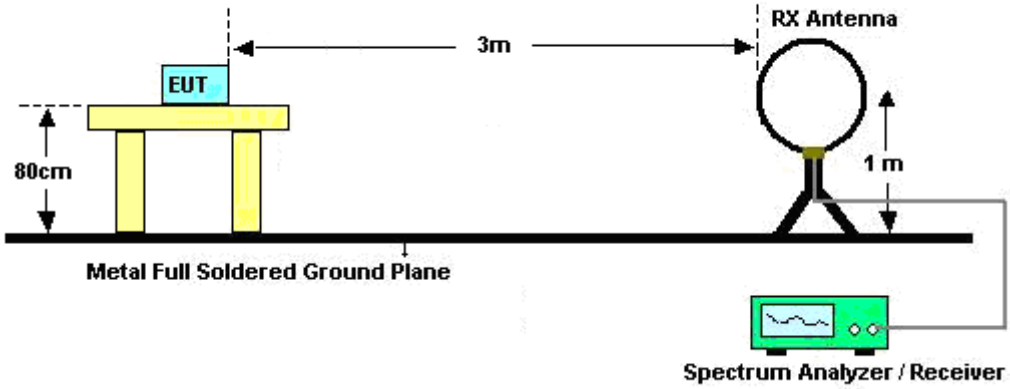
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

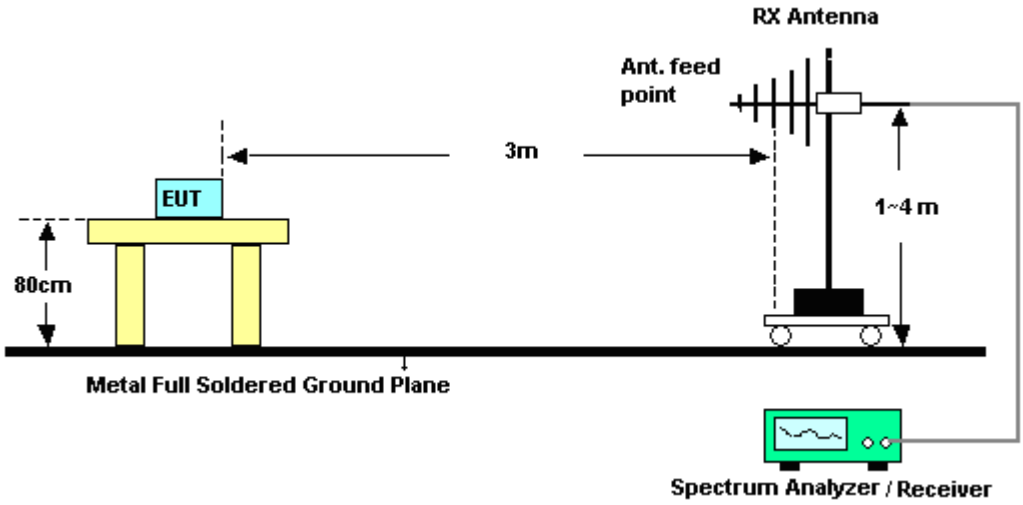
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

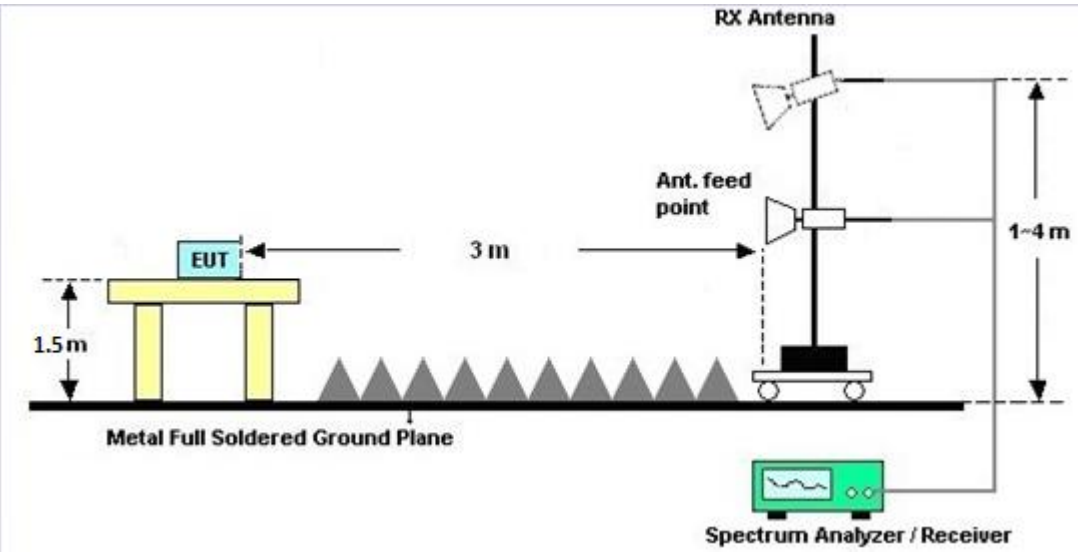
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

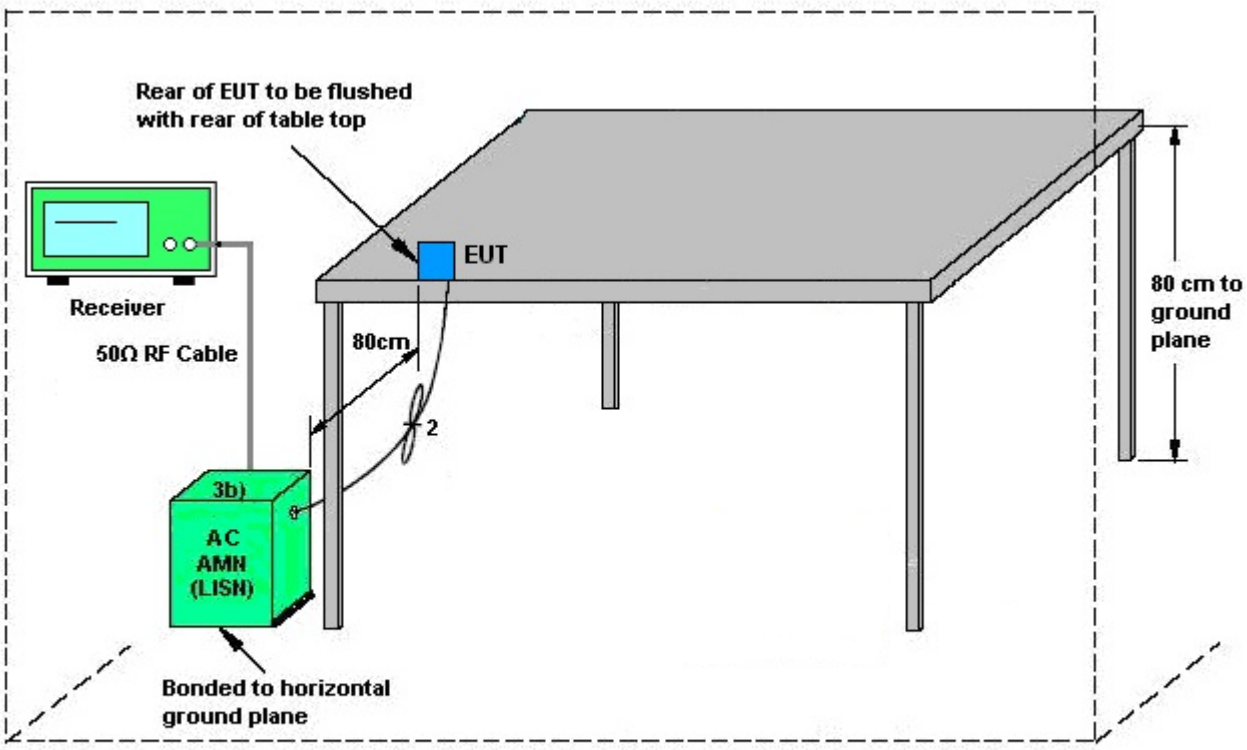
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 06, 2018	Sep. 14, 2018~ Sep. 25, 2018	Mar. 05, 2019	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Aug. 16, 2018	Sep. 14, 2018~ Sep. 25, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Aug. 16, 2018	Sep. 14, 2018~ Sep. 25, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 07, 2017	Sep. 14, 2018~ Sep. 25, 2018	Nov. 06, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Sep. 14, 2018~ Sep. 25, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 15, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Sep. 15, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Sep. 15, 2018	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Sep. 15, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 15, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Sep. 15, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Sep. 15, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 09, 2018	Nov. 23, 2018~ Nov. 26, 2018	Nov. 08, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D &N-6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 13, 2018	Nov. 23, 2018~ Nov. 26, 2018	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 30, 2018	Nov. 23, 2018~ Nov. 26, 2018	Oct. 29, 2019	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 05, 2018	Nov. 23, 2018~ Nov. 26, 2018	Nov. 04, 2019	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2018	Nov. 23, 2018~ Nov. 26, 2018	Oct. 18, 2019	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 23, 2018~ Nov. 26, 2018	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Nov. 23, 2018~ Nov. 26, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 23, 2018~ Nov. 26, 2018	N/A	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Nov. 23, 2018~ Nov. 26, 2018	Jul. 15, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Nov. 23, 2018~ Nov. 26, 2018	Nov. 13, 2020	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Nov. 23, 2018~ Nov. 26, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	1710001800054002	1GHz~18GHz	Apr. 17, 2018	Nov. 23, 2018~ Nov. 26, 2018	Apr. 16, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	May 08, 2018	Nov. 23, 2018~ Nov. 26, 2018	May 07, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Nov. 23, 2018~ Nov. 26, 2018	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 14, 2018	Nov. 23, 2018~ Nov. 26, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 14, 2018	Nov. 23, 2018~ Nov. 26, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 14, 2018	Nov. 23, 2018~ Nov. 26, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 14, 2018	Nov. 23, 2018~ Nov. 26, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 16, 2018	Nov. 23, 2018~ Nov. 26, 2018	Sep. 17, 2019	Radiation (03CH11-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Aug. 23, 2018	Nov. 23, 2018~ Nov. 26, 2018	Aug. 22, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 17, 2018	Nov. 23, 2018~ Nov. 26, 2018	Sep. 16, 2019	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.20**

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))	**5.50**

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin / Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/9/14 ~2018/09/25	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	16.78	-	24.43	-	-		22.25	-		
11a	6Mbps	1	44	5220	16.78	-	24.98	-	-		22.25	-		
11a	6Mbps	1	48	5240	16.78	-	24.53	-	-		22.25	-		
HT20	MCS0	1	36	5180	17.88	-	26.02	-	-		22.52	-		
HT20	MCS0	1	44	5220	17.98	-	26.12	-	-		22.55	-		
HT20	MCS0	1	48	5240	17.98	-	25.87	-	-		22.55	-		
HT40	MCS0	1	38	5190	36.66	-	41.90	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.56	-	42.26	-	-		23.01	-		
VHT80	MCS0	1	42	5210	76.84	-	84.24	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.23	-	15.44	-		24.00	-	-4.50	-		Pass
11a	6Mbps	1	44	5220	0.23	-	15.26	-		24.00	-	-4.50	-		Pass
11a	6Mbps	1	48	5240	0.23	-	15.22	-		24.00	-	-4.50	-		Pass
HT20	MCS0	1	36	5180	0.26	-	14.79	-		24.00	-	-4.50	-		Pass
HT20	MCS0	1	44	5220	0.26	-	14.98	-		24.00	-	-4.50	-		Pass
HT20	MCS0	1	48	5240	0.26	-	14.94	-		24.00	-	-4.50	-		Pass
HT40	MCS0	1	38	5190	0.42	-	14.37	-		24.00	-	-4.50	-		Pass
HT40	MCS0	1	46	5230	0.42	-	14.47	-		24.00	-	-4.50	-		Pass
VHT20	MCS0	1	36	5180	0.24	-	14.74	-		24.00	-	-4.50	-		Pass
VHT20	MCS0	1	44	5220	0.24	-	14.96	-		24.00	-	-4.50	-		Pass
VHT20	MCS0	1	48	5240	0.24	-	14.92	-		24.00	-	-4.50	-		Pass
VHT40	MCS0	1	38	5190	0.54	-	14.36	-		24.00	-	-4.50	-		Pass
VHT40	MCS0	1	46	5230	0.54	-	14.40	-		24.00	-	-4.50	-		Pass
VHT80	MCS0	1	42	5210	0.62	-	12.84	-		24.00	-	-4.50	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.23	-	4.43	-		11.00	-	-4.50	-		Pass
11a	6Mbps	1	44	5220	0.23	-	3.71	-		11.00	-	-4.50	-		Pass
11a	6Mbps	1	48	5240	0.23	-	3.41	-		11.00	-	-4.50	-		Pass
HT20	MCS0	1	36	5180	0.26	-	3.66	-		11.00	-	-4.50	-		Pass
HT20	MCS0	1	44	5220	0.26	-	3.34	-		11.00	-	-4.50	-		Pass
HT20	MCS0	1	48	5240	0.26	-	3.40	-		11.00	-	-4.50	-		Pass
HT40	MCS0	1	38	5190	0.42	-	0.00	-		11.00	-	-4.50	-		Pass
HT40	MCS0	1	46	5230	0.42	-	-0.06	-		11.00	-	-4.50	-		Pass
VHT80	MCS0	1	42	5210	0.62	-	-3.24	-		11.00	-	-4.50	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.88	-	24.08	-	23.27	-	29.27	-	23.98	-	
11a	6Mbps	1	60	5300	16.83	-	24.63	-	23.26	-	29.26	-	23.98	-	
11a	6Mbps	1	64	5320	16.78	-	24.23	-	23.25	-	29.25	-	23.98	-	
HT20	MCS0	1	52	5260	17.98	-	25.82	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	60	5300	17.98	-	26.07	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	64	5320	17.98	-	26.17	-	23.55	-	29.55	-	23.98	-	
HT40	MCS0	1	54	5270	36.56	-	42.26	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.56	-	42.44	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.84	-	84.88	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.23	-	15.12	-		23.98	-	-4.18	-	26.99	Pass
11a	6Mbps	1	60	5300	0.23	-	15.19	-		23.98	-	-4.18	-	26.99	Pass
11a	6Mbps	1	64	5320	0.23	-	15.41	-		23.98	-	-4.18	-	26.99	Pass
HT20	MCS0	1	52	5260	0.26	-	14.89	-		23.98	-	-4.18	-	26.99	Pass
HT20	MCS0	1	60	5300	0.26	-	14.92	-		23.98	-	-4.18	-	26.99	Pass
HT20	MCS0	1	64	5320	0.26	-	14.99	-		23.98	-	-4.18	-	26.99	Pass
HT40	MCS0	1	54	5270	0.42	-	14.28	-		23.98	-	-4.18	-	26.99	Pass
HT40	MCS0	1	62	5310	0.42	-	14.47	-		23.98	-	-4.18	-	26.99	Pass
VHT20	MCS0	1	52	5260	0.24	-	14.87	-		23.98	-	-4.18	-	26.99	Pass
VHT20	MCS0	1	60	5300	0.24	-	14.88	-		23.98	-	-4.18	-	26.99	Pass
VHT20	MCS0	1	64	5320	0.24	-	14.95	-		23.98	-	-4.18	-	26.99	Pass
VHT40	MCS0	1	54	5270	0.54	-	14.25	-		23.98	-	-4.18	-	26.99	Pass
VHT40	MCS0	1	62	5310	0.54	-	14.45	-		23.98	-	-4.18	-	26.99	Pass
VHT80	MCS0	1	58	5290	0.62	-	11.63	-		23.98	-	-4.18	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.23	-	3.60	-		11.00	-	-4.18	-		Pass
11a	6Mbps	1	60	5300	0.23	-	3.39	-		11.00	-	-4.18	-		Pass
11a	6Mbps	1	64	5320	0.23	-	3.86	-		11.00	-	-4.18	-		Pass
HT20	MCS0	1	52	5260	0.26	-	3.57	-		11.00	-	-4.18	-		Pass
HT20	MCS0	1	60	5300	0.26	-	3.44	-		11.00	-	-4.18	-		Pass
HT20	MCS0	1	64	5320	0.26	-	3.92	-		11.00	-	-4.18	-		Pass
HT40	MCS0	1	54	5270	0.42	-	-0.84	-		11.00	-	-4.18	-		Pass
HT40	MCS0	1	62	5310	0.42	-	0.17	-		11.00	-	-4.18	-		Pass
VHT80	MCS0	1	58	5290	0.62	-	-4.56	-		11.00	-	-4.18	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 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	16.78	-	24.68	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.78	-	24.93	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.83	-	24.53	-	23.26	-	29.26	-	23.98	-	----	----
11a	6Mbps	1	144	5720	13.39	-	17.24	-	22.27	-	28.27	-	23.37	-	2.79	-
HT20	MCS0	1	100	5500	17.88	-	25.57	-	23.52	-	29.52	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.93	-	26.02	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.98	-	25.62	-	23.55	-	29.55	-	23.98	-	----	----
HT20	MCS0	1	144	5720	13.99	-	17.89	-	22.46	-	28.46	-	23.53	-	2.59	-
HT40	MCS0	1	102	5510	36.56	-	42.26	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.56	-	42.17	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.56	-	42.44	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	142	5710	33.28	-	36.31	-	23.98	-	30.00	-	23.98	-	3.16	-
VHT80	MCS0	1	106	5530	76.96	-	84.08	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.96	-	84.08	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	138	5690	73.48	-	77.52	-	23.98	-	30.00	-	23.98	-	2.56	-

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.23	-	15.49	-		23.98	-	-1.90	-	26.99	Pass
11a	6Mbps	1	116	5580	0.23	-	15.41	-		23.98	-	-1.90	-	26.99	Pass
11a	6Mbps	1	140	5700	0.23	-	15.43	-		23.98	-	-1.90	-	26.99	Pass
11a	6Mbps	1	144	5720	0.23	-	15.38	-		23.37	-	-1.90	-	26.99	Pass
HT20	MCS0	1	100	5500	0.26	-	14.91	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	116	5580	0.26	-	14.98	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	140	5700	0.26	-	14.96	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	144	5720	0.26	-	14.84	-		23.53	-	-1.90	-	26.99	Pass
HT40	MCS0	1	102	5510	0.42	-	14.49	-		23.98	-	-1.90	-	26.99	Pass
HT40	MCS0	1	110	5550	0.42	-	14.47	-		23.98	-	-1.90	-	26.99	Pass
HT40	MCS0	1	134	5670	0.42	-	14.46	-		23.98	-	-1.90	-	26.99	Pass
HT40	MCS0	1	142	5710	0.42	-	14.43	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	100	5500	0.24	-	14.89	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	116	5580	0.24	-	14.96	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	140	5700	0.24	-	14.94	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	144	5720	0.24	-	14.81	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	102	5510	0.54	-	14.48	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	110	5550	0.54	-	14.44	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	134	5670	0.54	-	14.45	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	142	5710	0.54	-	14.41	-		23.98	-	-1.90	-	26.99	Pass
VHT80	MCS0	1	106	5530	0.62	-	13.65	-		23.98	-	-1.90	-	26.99	Pass
VHT80	MCS0	1	122	5610	0.62	-	13.69	-		23.98	-	-1.90	-	26.99	Pass
VHT80	MCS0	1	138	5690	0.62	-	13.77	-		23.98	-	-1.90	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.23	-	4.17	-		11.00	-	-1.90	-		Pass
11a	6Mbps	1	116	5580	0.23	-	4.11	-		11.00	-	-1.90	-		Pass
11a	6Mbps	1	140	5700	0.23	-	4.11	-		11.00	-	-1.90	-		Pass
11a	6Mbps	1	144	5720	0.23	-	4.35	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	100	5500	0.26	-	3.73	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	116	5580	0.26	-	3.82	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	140	5700	0.26	-	3.51	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	144	5720	0.26	-	3.56	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	102	5510	0.42	-	0.21	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	110	5550	0.42	-	-0.34	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	134	5670	0.42	-	0.34	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	142	5710	0.42	-	0.33	-		11.00	-	-1.90	-		Pass
VHT80	MCS0	1	106	5530	0.62	-	-3.99	-		11.00	-	-1.90	-		Pass
VHT80	MCS0	1	122	5610	0.62	-	-3.44	-		11.00	-	-1.90	-		Pass
VHT80	MCS0	1	138	5690	0.62	-	-3.59	-		11.00	-	-1.90	-		Pass

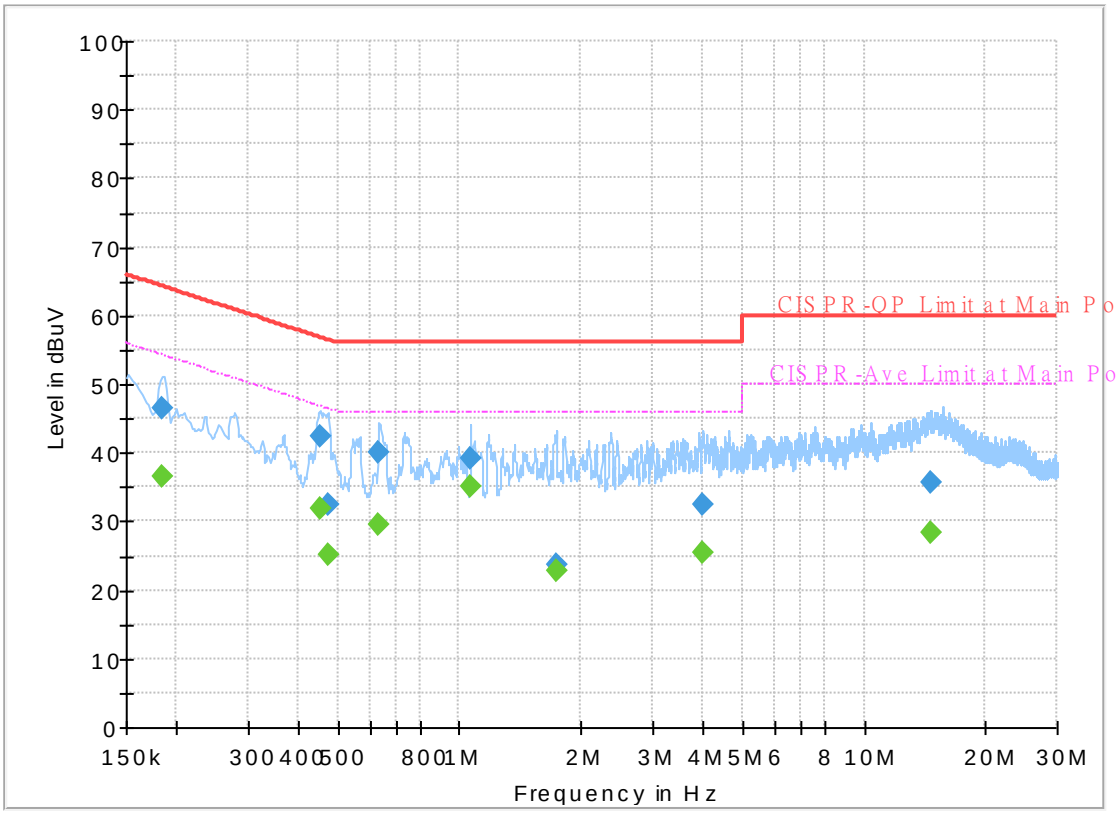
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~25℃
		Relative Humidity :	61~62%

EUT Information

Report NO :	882923-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



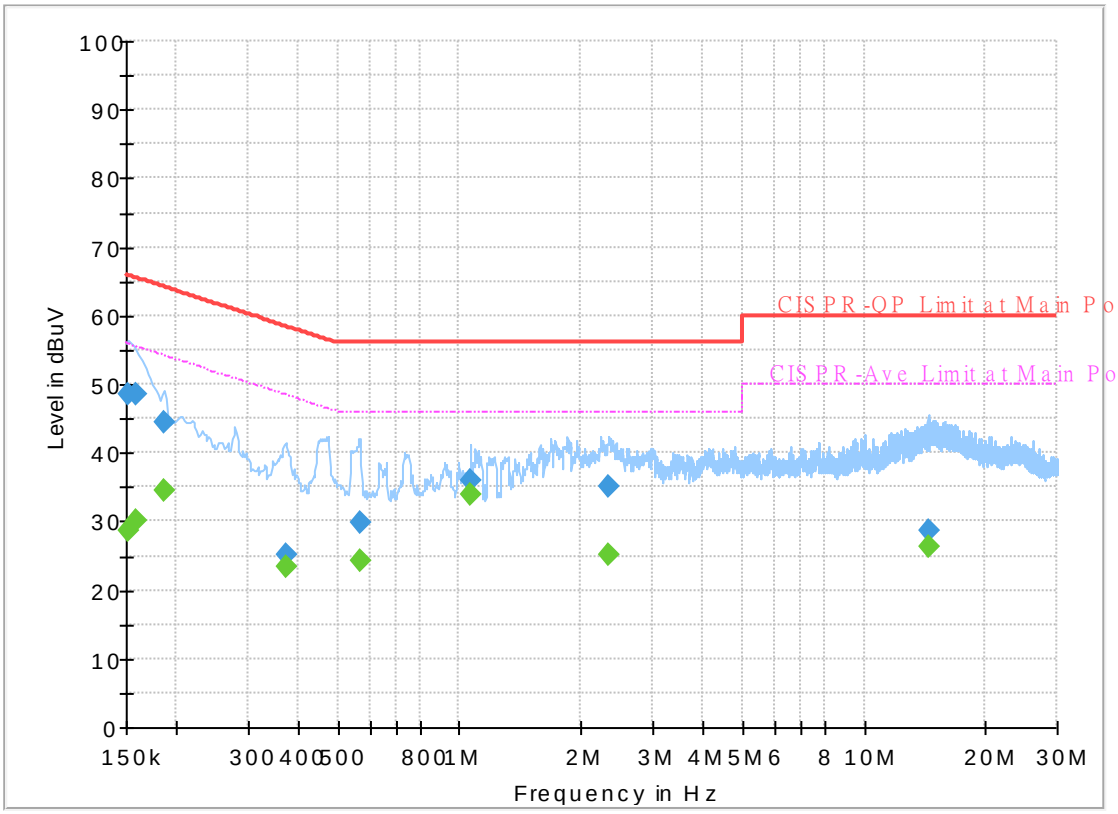
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	36.64	54.31	17.67	L1	OFF	19.5
0.183750	46.53	---	64.31	17.78	L1	OFF	19.5
0.451500	---	31.92	46.85	14.93	L1	OFF	19.5
0.451500	42.36	---	56.85	14.49	L1	OFF	19.5
0.474000	---	25.26	46.44	21.18	L1	OFF	19.5
0.474000	32.48	---	56.44	23.96	L1	OFF	19.5
0.633750	---	29.41	46.00	16.59	L1	OFF	19.6
0.633750	39.99	---	56.00	16.01	L1	OFF	19.6
1.068000	---	35.15	46.00	10.85	L1	OFF	19.6
1.068000	39.25	---	56.00	16.75	L1	OFF	19.6
1.736250	---	22.85	46.00	23.15	L1	OFF	19.6
1.736250	23.80	---	56.00	32.20	L1	OFF	19.6
3.979500	---	25.57	46.00	20.43	L1	OFF	19.7
3.979500	32.37	---	56.00	23.63	L1	OFF	19.7
14.631000	---	28.38	50.00	21.62	L1	OFF	20.1
14.631000	35.73	---	60.00	24.27	L1	OFF	20.1

EUT Information

Report NO :	882923-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.69	55.88	27.19	N	OFF	19.5
0.152250	48.57	---	65.88	17.31	N	OFF	19.5
0.159000	---	30.25	55.52	25.27	N	OFF	19.5
0.159000	48.49	---	65.52	17.03	N	OFF	19.5
0.186000	---	34.51	54.21	19.70	N	OFF	19.5
0.186000	44.55	---	64.21	19.66	N	OFF	19.5
0.372750	---	23.26	48.44	25.18	N	OFF	19.5
0.372750	25.05	---	58.44	33.39	N	OFF	19.5
0.566250	---	24.38	46.00	21.62	N	OFF	19.5
0.566250	29.75	---	56.00	26.25	N	OFF	19.5
1.065750	---	33.83	46.00	12.17	N	OFF	19.6
1.065750	36.01	---	56.00	19.99	N	OFF	19.6
2.346000	---	25.12	46.00	20.88	N	OFF	19.5
2.346000	35.20	---	56.00	20.80	N	OFF	19.5
14.388000	---	26.23	50.00	23.77	N	OFF	20.1
14.388000	28.61	---	60.00	31.39	N	OFF	20.1

Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	Temperature :	22~25°C
		Relative Humidity :	50~57%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.42	52.25	-21.75	74	43.8	31.89	9.68	33.12	135	338	P	H
		5146.64	43.14	-10.86	54	34.69	31.89	9.68	33.12	135	338	A	H
	*	5180	106.21	-	-	97.88	31.72	9.73	33.12	135	338	P	H
	*	5180	98.27	-	-	89.94	31.72	9.73	33.12	135	338	A	H
													H
													H
		5072.28	52.09	-21.91	74	43.95	31.69	9.57	33.12	350	25	P	V
		5139.62	42.1	-11.9	54	33.67	31.88	9.67	33.12	350	25	A	V
	*	5180	102.3	-	-	93.97	31.72	9.73	33.12	350	25	P	V
	*	5180	93.94	-	-	85.61	31.72	9.73	33.12	350	25	A	V
													V
													V
802.11a CH 44 5220MHz		5127.84	49.6	-24.4	74	41.21	31.86	9.65	33.12	101	335	P	H
		5149.94	41.27	-12.73	54	32.81	31.9	9.68	33.12	101	335	A	H
	*	5220	104.04	-	-	95.87	31.52	9.77	33.12	101	335	P	H
	*	5220	96.07	-	-	87.9	31.52	9.77	33.12	101	335	A	H
		5392.32	48.64	-25.36	74	40.36	31.55	9.84	33.11	101	335	P	H
		5428.56	40	-14	54	31.58	31.66	9.87	33.11	101	335	A	H
		5064.26	50.03	-23.97	74	41.93	31.66	9.56	33.12	355	28	P	V
		5147.9	41	-13	54	32.54	31.9	9.68	33.12	355	28	A	V
	*	5220	102.77	-	-	94.6	31.52	9.77	33.12	355	28	P	V
	*	5220	94.91	-	-	86.74	31.52	9.77	33.12	355	28	A	V
		5453.04	48.6	-25.4	74	40.11	31.71	9.89	33.11	355	28	P	V
		5455.44	39.74	-14.26	54	31.24	31.72	9.89	33.11	355	28	A	V

802.11a CH 48 5240MHz		5088.4	50.16	-23.84	74	41.94	31.75	9.59	33.12	106	335	P	H
		5136.34	40.89	-13.11	54	32.48	31.87	9.66	33.12	106	335	A	H
	*	5240	105.03	-	-	96.93	31.44	9.78	33.12	106	335	P	H
	*	5240	97.11	-	-	89.01	31.44	9.78	33.12	106	335	A	H
		5433.6	47.86	-26.14	74	39.43	31.67	9.87	33.11	106	335	P	H
		5458.56	39.85	-14.15	54	31.34	31.73	9.89	33.11	106	335	A	H
		5102.68	49.42	-24.58	74	41.12	31.81	9.61	33.12	331	27	P	V
		5146.88	41.04	-12.96	54	32.59	31.89	9.68	33.12	331	27	A	V
	*	5240	103.5	-	-	95.4	31.44	9.78	33.12	331	27	P	V
	*	5240	95.4	-	-	87.3	31.44	9.78	33.12	331	27	A	V
		5428.08	48.68	-25.32	74	40.26	31.66	9.87	33.11	331	27	P	V
		5455.44	39.85	-14.15	54	31.35	31.72	9.89	33.11	331	27	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	44.84	-23.36	68.2	50.05	39.54	15.26	60.01	100	0	P	H
		15540	43.29	-30.71	74	44.14	38.3	18.9	58.05	100	0	P	H
													H
													H
		10360	45.49	-22.71	68.2	50.7	39.54	15.26	60.01	100	0	P	V
		15540	42.85	-31.15	74	43.7	38.3	18.9	58.05	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	45.42	-22.78	68.2	50.56	39.7	15.31	60.15	100	0	P	H
		15660	43.1	-30.9	74	44.33	37.7	18.95	57.88	100	0	P	H
													H
													H
		10440	46.29	-21.91	68.2	51.43	39.7	15.31	60.15	100	0	P	V
		15660	43.23	-30.77	74	44.46	37.7	18.95	57.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	45.54	-22.66	68.2	50.77	39.7	15.33	60.26	100	0	P	H
		15720	42.47	-31.53	74	43.76	37.52	18.98	57.79	100	0	P	H
													H
													H
		10480	45.47	-22.73	68.2	50.7	39.7	15.33	60.26	100	0	P	V
		15720	42.67	-31.33	74	43.96	37.52	18.98	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5145.08	63.34	-10.66	74	54.89	31.89	9.68	33.12	117	338	P	H
		5149.24	45.59	-8.41	54	37.13	31.9	9.68	33.12	117	338	A	H
	*	5180	107.01	-	-	98.68	31.72	9.73	33.12	117	338	P	H
	*	5180	98.39	-	-	90.06	31.72	9.73	33.12	117	338	A	H
802.11n													H
HT20													H
CH 36		5141.96	56.93	-17.07	74	48.5	31.88	9.67	33.12	320	54	P	V
5180MHz		5149.76	42.92	-11.08	54	34.46	31.9	9.68	33.12	320	54	A	V
	*	5180	102.83	-	-	94.5	31.72	9.73	33.12	320	54	P	V
	*	5180	94.55	-	-	86.22	31.72	9.73	33.12	320	54	A	V
													V
													V
		5051	50.57	-23.43	74	42.55	31.6	9.54	33.12	102	335	P	H
		5148.92	41.31	-12.69	54	32.85	31.9	9.68	33.12	102	335	A	H
	*	5220	104.81	-	-	96.64	31.52	9.77	33.12	102	335	P	H
	*	5220	96.69	-	-	88.52	31.52	9.77	33.12	102	335	A	H
802.11n		5410.56	49.45	-24.55	74	41.09	31.62	9.85	33.11	102	335	P	H
HT20		5450.88	39.89	-14.11	54	31.41	31.7	9.89	33.11	102	335	A	H
CH 44		5121.72	48.73	-25.27	74	40.37	31.84	9.64	33.12	355	28	P	V
5220MHz		5143.48	40.93	-13.07	54	32.48	31.89	9.68	33.12	355	28	A	V
	*	5220	103.31	-	-	95.14	31.52	9.77	33.12	355	28	P	V
	*	5220	95.33	-	-	87.16	31.52	9.77	33.12	355	28	A	V
		5456.16	48.51	-25.49	74	40.01	31.72	9.89	33.11	355	28	P	V
		5451.84	39.93	-14.07	54	31.44	31.71	9.89	33.11	355	28	A	V

		5065.96	48.88	-25.12	74	40.78	31.66	9.56	33.12	106	335	P	H
		5143.48	40.92	-13.08	54	32.47	31.89	9.68	33.12	106	335	A	H
	*	5240	105.37	-	-	97.27	31.44	9.78	33.12	106	335	P	H
	*	5240	97.23	-	-	89.13	31.44	9.78	33.12	106	335	A	H
802.11n		5387.76	48.38	-25.62	74	40.12	31.53	9.84	33.11	106	335	P	H
HT20		5460	39.92	-14.08	54	31.4	31.74	9.89	33.11	106	335	A	H
CH 48		5127.16	49.31	-24.69	74	40.93	31.85	9.65	33.12	331	27	P	V
5240MHz		5073.44	40.8	-13.2	54	32.66	31.69	9.57	33.12	331	27	A	V
	*	5240	103.8	-	-	95.7	31.44	9.78	33.12	331	27	P	V
	*	5240	95.7	-	-	87.6	31.44	9.78	33.12	331	27	A	V
		5407.92	48.47	-25.53	74	40.11	31.62	9.85	33.11	331	27	P	V
		5452.8	39.78	-14.22	54	31.29	31.71	9.89	33.11	331	27	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	46.18	-22.02	68.2	51.39	39.54	15.26	60.01	100	0	P	H
		15540	42.98	-31.02	74	43.83	38.3	18.9	58.05	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	46.83	-21.37	68.2	52.04	39.54	15.26	60.01	100	0	P	V
5180MHz		15540	43.25	-30.75	74	44.1	38.3	18.9	58.05	100	0	P	V
													V
													V
		10440	45.18	-23.02	68.2	50.32	39.7	15.31	60.15	100	0	P	H
		15660	43.29	-30.71	74	44.52	37.7	18.95	57.88	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	44.99	-23.21	68.2	50.13	39.7	15.31	60.15	100	0	P	V
5220MHz		15660	43.81	-30.19	74	45.04	37.7	18.95	57.88	100	0	P	V
													V
													V
		10480	46.93	-21.27	68.2	52.16	39.7	15.33	60.26	100	0	P	H
		15720	42.53	-31.47	74	43.82	37.52	18.98	57.79	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	45.51	-22.69	68.2	50.74	39.7	15.33	60.26	100	0	P	V
5240MHz		15720	42.53	-31.47	74	43.82	37.52	18.98	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n 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)
		5142.74	61.72	-12.28	74	53.28	31.89	9.67	33.12	100	332	P	H
		5149.5	49.83	-4.17	54	41.37	31.9	9.68	33.12	100	332	A	H
	*	5190	103.24	-	-	94.96	31.66	9.74	33.12	100	332	P	H
	*	5190	94.56	-	-	86.28	31.66	9.74	33.12	100	332	A	H
802.11n		5368.16	49.27	-24.73	74	41.14	31.41	9.83	33.11	100	332	P	H
HT40		5456.64	40.58	-13.42	54	32.07	31.73	9.89	33.11	100	332	A	H
CH 38		5149.76	62.64	-11.36	74	54.18	31.9	9.68	33.12	393	31	P	V
5190MHz		5149.5	47.65	-6.35	54	39.19	31.9	9.68	33.12	393	31	A	V
	*	5190	102.74	-	-	94.46	31.66	9.74	33.12	393	31	P	V
	*	5190	94.3	-	-	86.02	31.66	9.74	33.12	393	31	A	V
		5394.48	48.52	-25.48	74	40.22	31.57	9.84	33.11	393	31	P	V
		5456.08	40.68	-13.32	54	32.18	31.72	9.89	33.11	393	31	A	V
		5140.92	55.11	-18.89	74	46.68	31.88	9.67	33.12	100	332	P	H
		5146.64	44.02	-9.98	54	35.57	31.89	9.68	33.12	100	332	A	H
	*	5230	103.91	-	-	95.78	31.48	9.77	33.12	100	332	P	H
	*	5230	95.16	-	-	87.03	31.48	9.77	33.12	100	332	A	H
802.11n		5352.2	48.8	-25.2	74	40.78	31.31	9.82	33.11	100	332	P	H
HT40		5457.2	40.86	-13.14	54	32.35	31.73	9.89	33.11	100	332	P	H
CH 46		5147.16	56.58	-17.42	74	48.13	31.89	9.68	33.12	388	31	P	V
5230MHz		5145.86	43.09	-10.91	54	34.64	31.89	9.68	33.12	388	31	A	V
	*	5230	102.7	-	-	94.57	31.48	9.77	33.12	388	31	P	V
	*	5230	94.16	-	-	86.03	31.48	9.77	33.12	388	31	A	V
		5421.08	48.8	-25.2	74	40.41	31.64	9.86	33.11	388	31	P	V
		5454.68	40.54	-13.46	54	32.04	31.72	9.89	33.11	388	31	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (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)
		10380	46.05	-22.15	68.2	51.2	39.62	15.27	60.04	100	0	P	H
		15570	43.05	-30.95	74	43.99	38.15	18.91	58	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	46.31	-21.89	68.2	51.46	39.62	15.27	60.04	100	0	P	V
5190MHz		15570	42.85	-31.15	74	43.79	38.15	18.91	58	100	0	P	V
													V
													V
		10460	46.16	-22.04	68.2	51.33	39.7	15.32	60.19	100	0	P	H
		15690	42.53	-31.47	74	43.84	37.55	18.97	57.83	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	46.41	-21.79	68.2	51.58	39.7	15.32	60.19	100	0	P	V
5230MHz		15690	43.73	-30.27	74	45.04	37.55	18.97	57.83	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5146.2	60.66	-13.34	74	52.21	31.89	9.68	33.12	111	311	P	H
		5149.94	50.75	-3.25	54	42.29	31.9	9.68	33.12	111	311	A	H
	*	5210	100.07	-	-	91.87	31.56	9.76	33.12	111	311	P	H
	*	5210	94.6	-	-	86.4	31.56	9.76	33.12	111	311	A	H
802.11ac		5458.96	48.27	-25.73	74	39.75	31.74	9.89	33.11	111	311	P	H
VHT80		5374.2	40.49	-13.51	54	32.32	31.45	9.83	33.11	111	311	A	H
CH 42		5147.9	59.47	-14.53	74	51.01	31.9	9.68	33.12	395	32	P	V
5210MHz		5149.94	49.24	-4.76	54	40.78	31.9	9.68	33.12	395	32	A	V
	*	5210	99.38	-	-	91.18	31.56	9.76	33.12	395	32	P	V
	*	5210	94.11	-	-	85.91	31.56	9.76	33.12	395	32	A	V
		5392.66	47.7	-26.3	74	39.41	31.56	9.84	33.11	395	32	P	V
		5454.54	40.36	-13.64	54	31.86	31.72	9.89	33.11	395	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	44.49	-23.71	68.2	49.61	39.7	15.3	60.12	100	0	P	H
		15630	43.6	-30.4	74	44.72	37.85	18.94	57.91	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	44.96	-23.24	68.2	50.08	39.7	15.3	60.12	100	0	P	V
5210MHz		15630	43.72	-30.28	74	44.84	37.85	18.94	57.91	100	0	P	V
													V
													V

Remark

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI 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		5149.94	50.56	-23.44	74	42.1	31.9	9.68	33.12	100	335	P	H
		5077.86	40.89	-13.11	54	32.72	31.71	9.58	33.12	100	335	A	H
	*	5260	105.35	-	-	97.3	31.38	9.78	33.11	100	335	P	H
	*	5260	97.38	-	-	89.33	31.38	9.78	33.11	100	335	A	H
		5381.04	48.69	-25.31	74	40.48	31.49	9.83	33.11	100	335	P	H
		5448.96	39.66	-14.34	54	31.19	31.7	9.88	33.11	100	335	A	H
		5111.18	50.72	-23.28	74	42.39	31.82	9.63	33.12	317	45	P	V
		5108.8	40.78	-13.22	54	32.46	31.82	9.62	33.12	317	45	A	V
	*	5260	101.85	-	-	93.8	31.38	9.78	33.11	317	45	P	V
	*	5260	93.95	-	-	85.9	31.38	9.78	33.11	317	45	A	V
		5459.76	48.07	-25.93	74	39.55	31.74	9.89	33.11	317	45	P	V
		5459.04	39.59	-14.41	54	31.07	31.74	9.89	33.11	317	45	A	V
802.11a CH 60 5300MHz		5094.52	49.48	-24.52	74	41.22	31.78	9.6	33.12	100	336	P	H
		5130.9	40.8	-13.2	54	32.4	31.86	9.66	33.12	100	336	A	H
	*	5300	105.84	-	-	97.85	31.3	9.8	33.11	100	336	P	H
	*	5300	97.73	-	-	89.74	31.3	9.8	33.11	100	336	A	H
		5355.6	48.85	-25.15	74	40.81	31.33	9.82	33.11	100	336	P	H
		5351.04	42.66	-11.34	54	34.64	31.31	9.82	33.11	100	336	A	H
		5066.3	49.66	-24.34	74	41.55	31.67	9.56	33.12	384	26	P	V
		5090.44	40.94	-13.06	54	32.7	31.76	9.6	33.12	384	26	A	V
	*	5300	104.09	-	-	96.1	31.3	9.8	33.11	384	26	P	V
	*	5300	95.79	-	-	87.8	31.3	9.8	33.11	384	26	A	V
		5443.68	48.57	-25.43	74	40.11	31.69	9.88	33.11	384	26	P	V
		5352	40.61	-13.39	54	32.59	31.31	9.82	33.11	384	26	A	V

802.11a CH 64 5320MHz	*	5320	108.09	-	-	100.09	31.3	9.81	33.11	126	337	P	H
	*	5320	100.22	-	-	92.22	31.3	9.81	33.11	126	337	A	H
		5353.44	50.89	-23.11	74	42.86	31.32	9.82	33.11	126	337	P	H
		5350.08	43.43	-10.57	54	35.42	31.3	9.82	33.11	126	337	A	H
													H
													H
	*	5320	103.45	-	-	95.45	31.3	9.81	33.11	300	7	P	V
	*	5320	95.29	-	-	87.29	31.3	9.81	33.11	300	7	A	V
		5350.72	48.73	-25.27	74	40.72	31.3	9.82	33.11	300	7	P	V
		5350.72	41.04	-12.96	54	33.03	31.3	9.82	33.11	300	7	A	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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	47.25	-20.95	68.2	52.54	39.7	15.35	60.34	100	0	P	H
		15780	43.24	-30.76	74	44.37	37.58	19	57.71	100	0	P	H
													H
													H
		10520	45.2	-23	68.2	50.49	39.7	15.35	60.34	100	0	P	V
		15780	42.96	-31.04	74	44.09	37.58	19	57.71	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	45.13	-28.87	74	50.58	39.7	15.4	60.55	100	0	P	H
		15900	43.63	-30.37	74	44.92	37.2	19.05	57.54	100	0	P	H
													H
													H
		10600	45.01	-28.99	74	50.46	39.7	15.4	60.55	100	0	P	V
		15900	43.07	-30.93	74	44.36	37.2	19.05	57.54	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	44.66	-29.34	74	50.21	39.66	15.42	60.63	100	0	P	H
		15960	42.29	-31.71	74	43.64	37.02	19.08	57.45	100	0	P	H
													H
													H
		10640	45.56	-28.44	74	51.11	39.66	15.42	60.63	100	0	P	V
		15960	42.52	-31.48	74	43.87	37.02	19.08	57.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5107.1	49.97	-24.03	74	41.66	31.81	9.62	33.12	100	335	P	H
		5148.24	40.78	-13.22	54	32.32	31.9	9.68	33.12	100	335	A	H
	*	5260	106.25	-	-	98.2	31.38	9.78	33.11	100	335	P	H
	*	5260	97.65	-	-	89.6	31.38	9.78	33.11	100	335	A	H
802.11n		5378.4	49.05	-24.95	74	40.86	31.47	9.83	33.11	100	335	P	H
HT20		5440.8	39.96	-14.04	54	31.51	31.68	9.88	33.11	100	335	A	H
CH 52		5038.76	49.94	-24.06	74	41.98	31.56	9.52	33.12	317	45	P	V
5260MHz		5123.42	40.77	-13.23	54	32.39	31.85	9.65	33.12	317	45	A	V
	*	5260	102.85	-	-	94.8	31.38	9.78	33.11	317	45	P	V
	*	5260	94.5	-	-	86.45	31.38	9.78	33.11	317	45	A	V
		5445.84	49.13	-24.87	74	40.67	31.69	9.88	33.11	317	45	P	V
		5455.92	39.64	-14.36	54	31.14	31.72	9.89	33.11	317	45	A	V
		5012.92	50.58	-23.42	74	42.77	31.45	9.48	33.12	100	336	P	H
		5102	40.87	-13.13	54	32.58	31.8	9.61	33.12	100	336	A	H
	*	5300	106.26	-	-	98.27	31.3	9.8	33.11	100	336	P	H
	*	5300	98.04	-	-	90.05	31.3	9.8	33.11	100	336	A	H
802.11n		5379.12	53.03	-20.97	74	44.84	31.47	9.83	33.11	100	336	P	H
HT20		5352.24	42.43	-11.57	54	34.41	31.31	9.82	33.11	100	336	A	H
CH 60		5114.24	49.57	-24.43	74	41.23	31.83	9.63	33.12	384	26	P	V
5300MHz		5122.74	40.83	-13.17	54	32.46	31.85	9.64	33.12	384	26	A	V
	*	5300	104.09	-	-	96.1	31.3	9.8	33.11	384	26	P	V
	*	5300	95.89	-	-	87.9	31.3	9.8	33.11	384	26	A	V
		5362.8	53.57	-20.43	74	45.47	31.38	9.83	33.11	384	26	P	V
		5350.08	40.66	-13.34	54	32.65	31.3	9.82	33.11	384	26	A	V

	*	5320	109.52	-	-	101.52	31.3	9.81	33.11	109	338	P	H
	*	5320	100.63	-	-	92.63	31.3	9.81	33.11	109	338	A	H
		5365.76	63.22	-10.78	74	55.11	31.39	9.83	33.11	109	338	P	H
		5352.16	46.48	-7.52	54	38.46	31.31	9.82	33.11	109	338	A	H
802.11n													H
HT20													H
CH 64	*	5320	104.12	-	-	96.12	31.3	9.81	33.11	300	6	P	V
5320MHz	*	5320	95.68	-	-	87.68	31.3	9.81	33.11	300	6	A	V
		5376.16	55.99	-18.01	74	47.81	31.46	9.83	33.11	300	6	P	V
		5352.96	42.56	-11.44	54	34.53	31.32	9.82	33.11	300	6	A	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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	46.25	-21.95	68.2	51.54	39.7	15.35	60.34	100	0	P	H
		15780	44.14	-29.86	74	45.27	37.58	19	57.71	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	46.41	-21.79	68.2	51.7	39.7	15.35	60.34	100	0	P	V
5260MHz		15780	43.58	-30.42	74	44.71	37.58	19	57.71	100	0	P	V
													V
													V
		10600	46.43	-27.57	74	51.88	39.7	15.4	60.55	100	0	P	H
		15900	42.42	-31.58	74	43.71	37.2	19.05	57.54	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	45.66	-28.34	74	51.11	39.7	15.4	60.55	100	0	P	V
5300MHz		15900	42.35	-31.65	74	43.64	37.2	19.05	57.54	100	0	P	V
													V
													V
		10640	46.12	-27.88	74	51.67	39.66	15.42	60.63	100	0	P	H
		15960	43.38	-30.62	74	44.73	37.02	19.08	57.45	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	45.57	-28.43	74	51.12	39.66	15.42	60.63	100	0	P	V
5320MHz		15960	41.96	-32.04	74	43.31	37.02	19.08	57.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n 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)
		5139.4	51	-23	74	42.57	31.88	9.67	33.12	100	311	P	H
		5107.78	41.76	-12.24	54	33.44	31.82	9.62	33.12	100	311	A	H
	*	5270	103.66	-	-	95.62	31.36	9.79	33.11	100	311	P	H
	*	5270	95.31	-	-	87.27	31.36	9.79	33.11	100	311	A	H
802.11n		5356.8	54.38	-19.62	74	46.33	31.34	9.82	33.11	100	311	P	H
HT40		5350	42.98	-11.02	54	34.97	31.3	9.82	33.11	100	311	P	H
CH 54		5120.7	49.86	-24.14	74	41.5	31.84	9.64	33.12	384	26	P	V
5270MHz		5123.76	42.21	-11.79	54	33.83	31.85	9.65	33.12	384	26	A	V
	*	5270	102.28	-	-	94.24	31.36	9.79	33.11	384	26	P	V
	*	5270	93.84	-	-	85.8	31.36	9.79	33.11	384	26	A	V
		5350.56	53.5	-20.5	74	45.49	31.3	9.82	33.11	384	26	P	V
		5350.32	41.33	-12.67	54	33.32	31.3	9.82	33.11	384	26	P	V
		5133.28	49.67	-24.33	74	41.26	31.87	9.66	33.12	100	321	P	H
		5086.02	41.98	-12.02	54	33.77	31.74	9.59	33.12	100	321	A	H
	*	5310	102.61	-	-	94.62	31.3	9.8	33.11	100	321	P	H
	*	5310	96.03	-	-	88.04	31.3	9.8	33.11	100	321	A	H
802.11n		5355.84	63.16	-10.84	74	55.11	31.34	9.82	33.11	100	321	P	H
HT40		5350.08	50.54	-3.46	54	42.53	31.3	9.82	33.11	100	321	A	H
CH 62		5111.18	50.65	-23.35	74	42.32	31.82	9.63	33.12	380	32	P	V
5310MHz		5137.02	41.99	-12.01	54	33.57	31.87	9.67	33.12	380	32	A	V
	*	5310	102.67	-	-	94.68	31.3	9.8	33.11	380	32	P	V
	*	5310	96.55	-	-	88.56	31.3	9.8	33.11	380	32	A	V
		5351.04	55.77	-18.23	74	47.75	31.31	9.82	33.11	380	32	P	V
		5350.56	49.59	-4.41	54	41.58	31.3	9.82	33.11	380	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		10540	45.52	-22.68	68.2	50.83	39.7	15.37	60.38	100	0	P	H
		15810	42.76	-31.24	74	43.86	37.56	19.01	57.67	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	47.29	-20.91	68.2	52.6	39.7	15.37	60.38	100	0	P	V
5270MHz		15810	43.16	-30.84	74	44.26	37.56	19.01	57.67	100	0	P	V
													V
													V
		10620	44.23	-29.77	74	49.73	39.68	15.41	60.59	100	0	P	H
		15930	41.98	-32.02	74	43.31	37.11	19.06	57.5	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	45.61	-28.39	74	51.11	39.68	15.41	60.59	100	0	P	V
5310MHz		15930	42.3	-31.7	74	43.63	37.11	19.06	57.5	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5113.4	49.41	-24.59	74	41.07	31.83	9.63	33.12	100	311	P	H
		5133.5	41.94	-12.06	54	33.53	31.87	9.66	33.12	100	311	A	H
	*	5290	98.61	-	-	90.6	31.32	9.8	33.11	100	311	P	H
	*	5290	90.59	-	-	82.58	31.32	9.8	33.11	100	311	A	H
802.11ac		5356.32	56.72	-17.28	74	48.67	31.34	9.82	33.11	100	311	P	H
VHT80		5350.32	50.4	-3.6	54	42.39	31.3	9.82	33.11	100	311	A	H
CH 58		5130.2	50.23	-23.77	74	41.83	31.86	9.66	33.12	382	32	P	V
5290MHz		5057	41.82	-12.18	54	33.76	31.63	9.55	33.12	382	32	A	V
	*	5290	97.14	-	-	89.13	31.32	9.8	33.11	382	32	P	V
	*	5290	89.68	-	-	81.67	31.32	9.8	33.11	382	32	A	V
		5351.76	55.1	-18.9	74	47.08	31.31	9.82	33.11	382	32	P	V
		5350.8	49.22	-4.78	54	41.21	31.3	9.82	33.11	382	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	44.28	-23.92	68.2	49.7	39.7	15.39	60.51	100	0	P	H
		15870	42.68	-31.32	74	43.89	37.32	19.04	57.57	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	42.96	-25.24	68.2	48.38	39.7	15.39	60.51	100	0	P	V
5290MHz		15870	42.7	-31.3	74	43.91	37.32	19.04	57.57	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI 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		5458.64	61.23	-12.77	74	52.72	31.73	9.89	33.11	100	341	P	H
		5468.88	60.95	-7.25	68.2	52.38	31.78	9.9	33.11	100	341	P	H
		5456.56	43.02	-10.98	54	34.51	31.73	9.89	33.11	100	341	A	H
	*	5500	106.02	-	-	97.3	31.9	9.93	33.11	100	341	P	H
	*	5500	97.82	-	-	89.1	31.9	9.93	33.11	100	341	A	H
													H
		5458.64	49.45	-24.55	74	40.94	31.73	9.89	33.11	316	48	P	V
		5461.52	48.56	-19.64	68.2	40.02	31.75	9.9	33.11	316	48	P	V
		5459.92	40.27	-13.73	54	31.75	31.74	9.89	33.11	316	48	A	V
	*	5500	101.12	-	-	92.4	31.9	9.93	33.11	316	48	P	V
	*	5500	93.62	-	-	84.9	31.9	9.93	33.11	316	48	A	V
													V
802.11a CH 116 5580MHz		5422.48	49.9	-24.1	74	41.51	31.64	9.86	33.11	100	338	P	H
		5467.12	50.05	-18.15	68.2	41.49	31.77	9.9	33.11	100	338	P	H
		5459.2	40.33	-13.67	54	31.81	31.74	9.89	33.11	100	338	A	H
	*	5580	106.14	-	-	97.48	31.8	10	33.14	100	338	P	H
	*	5580	98.23	-	-	89.57	31.8	10	33.14	100	338	A	H
		5725.625	50.29	-17.91	68.2	41.22	32.05	10.2	33.18	100	338	P	H
		5359.12	48.9	-25.1	74	40.84	31.35	9.82	33.11	366	43	P	V
		5467.84	47.48	-20.72	68.2	38.92	31.77	9.9	33.11	366	43	P	V
		5459.68	40.07	-13.93	54	31.55	31.74	9.89	33.11	366	43	A	V
	*	5580	102.87	-	-	94.21	31.8	10	33.14	366	43	P	V
	*	5580	94.75	-	-	86.09	31.8	10	33.14	366	43	A	V
		5748.935	49.37	-18.83	68.2	40.23	32.1	10.23	33.19	366	43	P	V

802.11a CH 140 5700MHz	*	5700	110.07	-	-	101.08	32	10.16	33.17	110	343	P	H
	*	5700	101.86	-	-	92.87	32	10.16	33.17	110	343	A	H
		5725.24	56.81	-11.39	68.2	47.74	32.05	10.2	33.18	110	343	P	H
													H
													H
													H
	*	5700	106.41	-	-	97.42	32	10.16	33.17	327	41	P	V
	*	5700	98.34	-	-	89.35	32	10.16	33.17	327	41	A	V
		5725.72	54.17	-14.03	68.2	45.1	32.05	10.2	33.18	327	41	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	46.02	-27.98	74	51.9	40	15.62	61.5	100	0	P	H
		16500	43.9	-24.3	68.2	42.95	38.7	19.55	57.3	100	0	P	H
													H
													H
		11000	45.45	-28.55	74	51.33	40	15.62	61.5	100	0	P	V
		16500	44.9	-23.3	68.2	43.95	38.7	19.55	57.3	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.59	-28.41	74	51.92	39.48	15.72	61.53	100	0	P	H
		16740	45.28	-22.92	68.2	42.77	39.56	19.77	56.82	100	0	P	H
													H
													H
		11160	46.68	-27.32	74	53.01	39.48	15.72	61.53	100	0	P	V
		16740	45.29	-22.91	68.2	42.78	39.56	19.77	56.82	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	44.95	-29.05	74	50.97	39.7	15.86	61.58	100	0	P	H
		17100	46.43	-21.77	68.2	42.31	40.1	20.1	56.08	100	0	P	H
													H
													H
		11400	45.51	-28.49	74	51.53	39.7	15.86	61.58	100	0	P	V
		17100	46.61	-21.59	68.2	42.49	40.1	20.1	56.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5448.88	61.12	-12.88	74	52.65	31.7	9.88	33.11	107	341	P	H
		5468.56	62.11	-6.09	68.2	53.55	31.77	9.9	33.11	107	341	P	H
		5459.76	44.4	-9.6	54	35.88	31.74	9.89	33.11	107	341	A	H
	*	5500	108.81	-	-	100.09	31.9	9.93	33.11	107	341	P	H
802.11n	*	5500	99.99	-	-	91.27	31.9	9.93	33.11	107	341	A	H
HT20													H
CH 100		5441.52	49.18	-24.82	74	40.73	31.68	9.88	33.11	316	47	P	V
5500MHz		5469.04	49.39	-18.81	68.2	40.82	31.78	9.9	33.11	316	47	P	V
		5458.32	41.19	-12.81	54	32.68	31.73	9.89	33.11	316	47	A	V
	*	5500	103.77	-	-	95.05	31.9	9.93	33.11	316	47	P	V
	*	5500	94.92	-	-	86.2	31.9	9.93	33.11	316	47	A	V
													V
		5456.08	49.29	-24.71	74	40.79	31.72	9.89	33.11	148	339	P	H
		5460.16	48.33	-19.87	68.2	39.81	31.74	9.89	33.11	148	339	P	H
		5457.04	39.88	-14.12	54	31.37	31.73	9.89	33.11	148	339	A	H
	*	5580	105.46	-	-	96.8	31.8	10	33.14	148	339	P	H
802.11n	*	5580	97.27	-	-	88.61	31.8	10	33.14	148	339	A	H
HT20		5761.22	49.31	-18.89	68.2	40.13	32.12	10.25	33.19	148	339	P	H
CH 116		5425.84	48.39	-25.61	74	39.99	31.65	9.86	33.11	366	44	P	V
5580MHz		5461.6	49.17	-19.03	68.2	40.63	31.75	9.9	33.11	366	44	P	V
		5457.52	39.89	-14.11	54	31.38	31.73	9.89	33.11	366	44	A	V
	*	5580	102.23	-	-	93.57	31.8	10	33.14	366	44	P	V
	*	5580	94.68	-	-	86.02	31.8	10	33.14	366	44	A	V
		5733.5	49.27	-18.93	68.2	40.17	32.07	10.21	33.18	366	44	P	V

	*	5700	108.11	-	-	99.12	32	10.16	33.17	103	325	P	H
	*	5700	99.34	-	-	90.35	32	10.16	33.17	103	325	A	H
		5734.12	65.02	-3.18	68.2	55.92	32.07	10.21	33.18	103	325	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	106.25	-	-	97.26	32	10.16	33.17	344	11	P	V
5700MHz	*	5700	97.74	-	-	88.75	32	10.16	33.17	344	11	A	V
		5742.68	60.72	-7.48	68.2	51.6	32.09	10.22	33.19	344	11	P	V
													V
													V
													V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 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	45.54	-28.46	74	51.42	40	15.62	61.5	100	0	P	H
		16500	44.56	-23.64	68.2	43.61	38.7	19.55	57.3	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	45.65	-28.35	74	51.53	40	15.62	61.5	100	0	P	V
5500MHz		16500	43.57	-24.63	68.2	42.62	38.7	19.55	57.3	100	0	P	V
													V
													V
		11160	45.04	-28.96	74	51.37	39.48	15.72	61.53	100	0	P	H
		16740	44.57	-23.63	68.2	42.06	39.56	19.77	56.82	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	44.73	-29.27	74	51.06	39.48	15.72	61.53	100	0	P	V
5580MHz		16740	44.81	-23.39	68.2	42.3	39.56	19.77	56.82	100	0	P	V
													V
													V
		11400	44.73	-29.27	74	50.75	39.7	15.86	61.58	100	0	P	H
		17100	46.25	-21.95	68.2	42.13	40.1	20.1	56.08	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	45.28	-28.72	74	51.3	39.7	15.86	61.58	100	0	P	V
5700MHz		17100	46.94	-21.26	68.2	42.82	40.1	20.1	56.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n 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)
		5446	60.39	-13.61	74	51.93	31.69	9.88	33.11	108	314	P	H
		5470	57.58	-10.62	68.2	49.01	31.78	9.9	33.11	108	314	P	H
		5459.68	46.3	-7.7	54	37.78	31.74	9.89	33.11	108	314	A	H
	*	5510	103.56	-	-	94.85	31.88	9.94	33.11	108	314	P	H
802.11n	*	5510	94.9	-	-	86.19	31.88	9.94	33.11	108	314	A	H
HT40		5756.18	49.38	-18.82	68.2	40.22	32.11	10.24	33.19	108	314	P	H
CH 102		5426.8	54.24	-19.76	74	45.84	31.65	9.86	33.11	369	32	P	V
5510MHz		5466.64	57.37	-10.83	68.2	48.81	31.77	9.9	33.11	369	32	P	V
		5459.44	44.55	-9.45	54	36.03	31.74	9.89	33.11	369	32	A	V
	*	5510	102.61	-	-	93.9	31.88	9.94	33.11	369	32	P	V
	*	5510	94.19	-	-	85.48	31.88	9.94	33.11	369	32	A	V
		5756.495	49.66	-18.54	68.2	40.5	32.11	10.24	33.19	369	32	P	V
		5373.28	48.98	-25.02	74	40.82	31.44	9.83	33.11	102	323	P	H
		5464	49.56	-18.64	68.2	41.01	31.76	9.9	33.11	102	323	P	H
		5458.96	42.47	-11.53	54	33.95	31.74	9.89	33.11	102	323	A	H
	*	5550	103.22	-	-	94.57	31.8	9.98	33.13	102	323	P	H
802.11n	*	5550	94.88	-	-	86.23	31.8	9.98	33.13	102	323	A	H
HT40		5733.815	49.23	-18.97	68.2	40.13	32.07	10.21	33.18	102	323	P	H
CH 110		5447.2	48.66	-25.34	74	40.2	31.69	9.88	33.11	381	9	P	V
5550MHz		5466.64	48.04	-20.16	68.2	39.48	31.77	9.9	33.11	381	9	P	V
		5459.44	41.1	-12.9	54	32.58	31.74	9.89	33.11	381	9	A	V
	*	5550	101.83	-	-	93.18	31.8	9.98	33.13	381	9	P	V
	*	5550	93.53	-	-	84.88	31.8	9.98	33.13	381	9	A	V
		5732.24	49.27	-18.93	68.2	40.18	32.06	10.21	33.18	381	9	P	V

		5455	49.03	-24.97	74	40.53	31.72	9.89	33.11	100	314	P	H
		5468.65	47.52	-20.68	68.2	38.96	31.77	9.9	33.11	100	314	P	H
		5434	41.07	-12.93	54	32.64	31.67	9.87	33.11	100	314	A	H
	*	5670	105.06	-	-	96.28	31.82	10.12	33.16	100	314	P	H
802.11n	*	5670	98.01	-	-	89.23	31.82	10.12	33.16	100	314	A	H
HT40		5739.1	64.02	-4.18	68.2	54.92	32.08	10.21	33.19	100	314	P	H
CH 134		5420	48.49	-25.51	74	40.1	31.64	9.86	33.11	384	24	P	V
5670MHz		5460.6	47.56	-20.64	68.2	39.04	31.74	9.89	33.11	384	24	P	V
		5455.35	40.63	-13.37	54	32.13	31.72	9.89	33.11	384	24	A	V
	*	5670	104.65	-	-	95.87	31.82	10.12	33.16	384	24	P	V
	*	5670	97.57	-	-	88.79	31.82	10.12	33.16	384	24	A	V
		5758.525	56.18	-12.02	68.2	47.01	32.12	10.24	33.19	384	24	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	45.59	-28.41	74	51.53	39.92	15.64	61.5	100	0	P	H
		16530	44.72	-23.48	68.2	43.61	38.76	19.58	57.23	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	44.84	-29.16	74	50.78	39.92	15.64	61.5	100	0	P	V
5510MHz		16530	43.94	-24.26	68.2	42.83	38.76	19.58	57.23	100	0	P	V
													V
													V
		11100	44.49	-29.51	74	50.73	39.6	15.68	61.52	100	0	P	H
		16650	44.94	-23.26	68.2	43.19	39.05	19.69	56.99	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	45.01	-28.99	74	51.25	39.6	15.68	61.52	100	0	P	V
5550MHz		16650	44.95	-23.25	68.2	43.2	39.05	19.69	56.99	100	0	P	V
													V
													V
		11340	44.07	-29.93	74	50.24	39.58	15.82	61.57	100	0	P	H
		17010	46.77	-21.43	68.2	43.01	40.01	20.01	56.26	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	45.01	-28.99	74	51.18	39.58	15.82	61.57	100	0	P	V
5670MHz		17010	46.6	-21.6	68.2	42.84	40.01	20.01	56.26	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.92	56.48	-17.52	74	47.96	31.74	9.89	33.11	100	314	P	H
		5463.28	60.64	-7.56	68.2	52.1	31.75	9.9	33.11	100	314	P	H
		5459.68	49.26	-4.74	54	40.74	31.74	9.89	33.11	100	314	A	H
	*	5530	99.46	-	-	90.78	31.84	9.96	33.12	100	314	P	H
802.11ac	*	5530	93.01	-	-	84.33	31.84	9.96	33.12	100	314	A	H
VHT80		5760.275	48.6	-19.6	68.2	39.43	32.12	10.24	33.19	100	314	P	H
CH 106		5449.6	54.36	-19.64	74	45.89	31.7	9.88	33.11	385	9	P	V
5530MHz		5462.08	56.56	-11.64	68.2	48.02	31.75	9.9	33.11	385	9	P	V
		5459.68	46.21	-7.79	54	37.69	31.74	9.89	33.11	385	9	A	V
	*	5530	97.93	-	-	89.25	31.84	9.96	33.12	385	9	P	V
	*	5530	91.68	-	-	83	31.84	9.96	33.12	385	9	A	V
		5750.51	49.31	-18.89	68.2	40.17	32.1	10.23	33.19	385	9	P	V
		5431.55	48.59	-25.41	74	40.17	31.66	9.87	33.11	100	315	P	H
		5460.6	47.4	-20.8	68.2	38.88	31.74	9.89	33.11	100	315	P	H
		5444.85	40.48	-13.52	54	32.02	31.69	9.88	33.11	100	315	A	H
	*	5610	99.76	-	-	91.1	31.78	10.03	33.15	100	315	P	H
802.11ac	*	5610	91.7	-	-	83.04	31.78	10.03	33.15	100	315	A	H
VHT80		5727.2	50.1	-18.1	68.2	41.03	32.05	10.2	33.18	100	315	P	H
CH 122		5457.45	49.17	-24.83	74	40.66	31.73	9.89	33.11	389	5	P	V
5610MHz		5469	46.86	-21.34	68.2	38.29	31.78	9.9	33.11	389	5	P	V
		5401.1	40.47	-13.53	54	32.14	31.6	9.84	33.11	389	5	A	V
	*	5610	97.8	-	-	89.14	31.78	10.03	33.15	389	5	P	V
	*	5610	89.76	-	-	81.1	31.78	10.03	33.15	389	5	A	V
		5761.675	49.44	-18.76	68.2	40.26	32.12	10.25	33.19	389	5	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	44.71	-29.29	74	50.8	39.76	15.66	61.51	100	0	P	H
		16590	44.74	-23.46	68.2	43.35	38.88	19.64	57.13	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	44.21	-29.79	74	50.3	39.76	15.66	61.51	100	0	P	V
5530MHz		16590	44.31	-23.89	68.2	42.92	38.88	19.64	57.13	100	0	P	V
													V
													V
		11220	44.84	-29.16	74	51.21	39.42	15.75	61.54	100	0	P	H
		16830	45.65	-22.55	68.2	42.4	40.04	19.85	56.64	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	44.98	-29.02	74	51.35	39.42	15.75	61.54	100	0	P	V
5610MHz		16830	45.58	-22.62	68.2	42.33	40.04	19.85	56.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5458.81	49.09	-24.91	74	40.57	31.74	9.89	33.11	100	309	P	H
		5461.93	47.63	-20.57	68.2	39.09	31.75	9.9	33.11	100	309	P	H
		5456.86	39.89	-14.11	54	31.38	31.73	9.89	33.11	100	309	A	H
	*	5720	106.55	-	-	97.5	32.04	10.19	33.18	100	309	P	H
	*	5720	98.75	-	-	89.7	32.04	10.19	33.18	100	309	A	H
		5927.75	51.95	-16.25	68.2	42.2	32.56	10.44	33.25	100	309	P	H
		5420.2	48.69	-25.31	74	40.3	31.64	9.86	33.11	384	20	P	V
		5465.83	47.23	-20.97	68.2	38.68	31.76	9.9	33.11	384	20	P	V
		5456.08	39.78	-14.22	54	31.28	31.72	9.89	33.11	384	20	A	V
	*	5720	105.42	-	-	96.37	32.04	10.19	33.18	384	20	P	V
	*	5720	97.35	-	-	88.3	32.04	10.19	33.18	384	20	A	V
		5884	50.46	-17.74	68.2	40.86	32.44	10.39	33.23	384	20	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 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 144 5720MHz		11440	44.69	-29.31	74	50.7	39.7	15.88	61.59	100	0	P	H
		17160	46.74	-21.46	68.2	42.24	40.28	20.15	55.93	100	0	P	H
													H
													H
		11440	44.32	-29.68	74	50.33	39.7	15.88	61.59	100	0	P	V
		17160	46.08	-22.12	68.2	41.58	40.28	20.15	55.93	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5389.39	48.71	-25.29	74	40.44	31.54	9.84	33.11	100	309	P	H
		5468.56	47.4	-20.8	68.2	38.84	31.77	9.9	33.11	100	309	P	H
		5453.74	39.88	-14.12	54	31.39	31.71	9.89	33.11	100	309	A	H
	*	5720	107.29	-	-	98.24	32.04	10.19	33.18	100	309	P	H
802.11n	*	5720	99.13	-	-	90.08	32.04	10.19	33.18	100	309	A	H
HT20		5929.75	50.51	-17.69	68.2	40.76	32.56	10.44	33.25	100	309	P	H
CH 144		5395.24	49.77	-24.23	74	41.47	31.57	9.84	33.11	384	20	P	V
5720MHz		5460.76	47.12	-21.08	68.2	38.6	31.74	9.89	33.11	384	20	P	V
		5455.3	39.88	-14.12	54	31.38	31.72	9.89	33.11	384	20	A	V
	*	5720	105.65	-	-	96.6	32.04	10.19	33.18	384	20	P	V
	*	5720	97.55	-	-	88.5	32.04	10.19	33.18	384	20	A	V
		5927.25	49.91	-18.29	68.2	40.17	32.55	10.44	33.25	384	20	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	44.31	-29.69	74	50.32	39.7	15.88	61.59	100	0	P	H
		17160	46.24	-21.96	68.2	41.74	40.28	20.15	55.93	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	44.69	-29.31	74	50.7	39.7	15.88	61.59	100	0	P	V
5720MHz		17160	45.93	-22.27	68.2	41.43	40.28	20.15	55.93	100	0	P	V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5429.17	49.09	-24.91	74	40.67	31.66	9.87	33.11	100	309	P	H
		5464.27	47.1	-21.1	68.2	38.55	31.76	9.9	33.11	100	309	P	H
		5449.06	39.92	-14.08	54	31.45	31.7	9.88	33.11	100	309	A	H
	*	5710	104.72	-	-	95.71	32.02	10.17	33.18	100	309	P	H
802.11n	*	5710	95.92	-	-	86.91	32.02	10.17	33.18	100	309	A	H
HT40		5902.5	50.69	-17.51	68.2	41.01	32.51	10.41	33.24	100	309	P	H
CH 142		5409.28	48.88	-25.12	74	40.52	31.62	9.85	33.11	364	20	P	V
5710MHz		5469.34	47.45	-20.75	68.2	38.88	31.78	9.9	33.11	364	20	P	V
		5458.81	39.81	-14.19	54	31.29	31.74	9.89	33.11	364	20	A	V
	*	5710	103.21	-	-	94.2	32.02	10.17	33.18	364	20	P	V
	*	5710	94.44	-	-	85.43	32.02	10.17	33.18	364	20	A	V
		5917	50.17	-18.03	68.2	40.45	32.53	10.43	33.24	364	20	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	45.02	-28.98	74	51.03	39.7	15.87	61.58	100	0	P	H
		17130	45.84	-22.36	68.2	41.54	40.19	20.12	56.01	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	44.47	-29.53	74	50.48	39.7	15.87	61.58	100	0	P	V
5710MHz		17130	45.92	-22.28	68.2	41.62	40.19	20.12	56.01	100	0	P	V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (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)
		5386.27	47.91	-26.09	74	39.67	31.52	9.83	33.11	100	308	P	H
		5468.95	48.5	-19.7	68.2	39.93	31.78	9.9	33.11	100	308	P	H
		5457.64	40.21	-13.79	54	31.7	31.73	9.89	33.11	100	308	A	H
	*	5690	99.98	-	-	91.06	31.94	10.15	33.17	100	308	P	H
802.11ac	*	5690	91.8	-	-	82.88	31.94	10.15	33.17	100	308	A	H
VHT80		5882.2	49.37	-18.83	68.2	39.78	32.43	10.39	33.23	100	308	P	H
CH 138		5428.39	48.68	-25.32	74	40.26	31.66	9.87	33.11	364	0	P	V
5690MHz		5470	48.75	-19.45	68.2	40.18	31.78	9.9	33.11	364	0	P	V
		5458.42	40.34	-13.66	54	31.83	31.73	9.89	33.11	364	0	A	V
	*	5690	98.32	-	-	89.4	31.94	10.15	33.17	364	0	P	V
	*	5690	90.39	-	-	81.47	31.94	10.15	33.17	364	0	A	V
		5940.1	51.1	-17.1	68.2	41.32	32.58	10.45	33.25	364	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (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)
		11380	44.54	-29.46	74	50.61	39.66	15.85	61.58	100	0	P	H
		17070	45.92	-22.28	68.2	41.93	40.07	20.07	56.15	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	44.08	-29.92	74	50.15	39.66	15.85	61.58	100	0	P	V
5690MHz		17070	45.9	-22.3	68.2	41.91	40.07	20.07	56.15	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 LF		46.47	23.18	-16.82	40	38.88	15.85	0.94	32.49			P	H
		149.34	34.08	-9.42	43.5	47.95	16.91	1.66	32.44	100	0	P	H
		267.06	26.73	-19.27	46	37.88	19.06	2.17	32.38			P	H
		533.8	27.07	-18.93	46	32.6	23.84	3.04	32.41			P	H
		698.3	28.97	-17.03	46	31.4	26.58	3.46	32.47			P	H
		947.5	32.82	-13.18	46	29.49	30.42	4.14	31.23			P	H
													H
													H
													H
													H
													H
													H
		47.01	31.02	-8.98	40	46.99	15.58	0.94	32.49	100	0	P	V
		65.37	29.8	-10.2	40	49.53	11.63	1.13	32.49			P	V
		160.95	29.93	-13.57	43.5	44.36	16.26	1.74	32.43			P	V
		440	24.81	-21.19	46	31.62	22.81	2.73	32.35			P	V
		533.8	27.77	-18.23	46	33.3	23.84	3.04	32.41			P	V
		951	33.28	-12.72	46	29.7	30.62	4.15	31.19			P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

WIFI 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)
802.11b 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

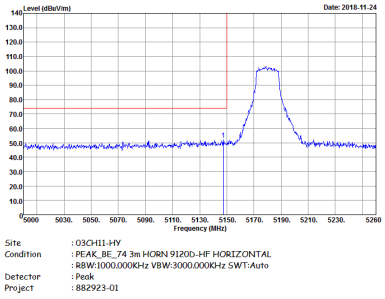
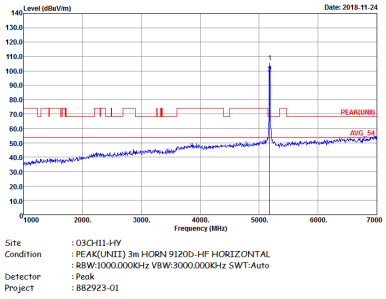
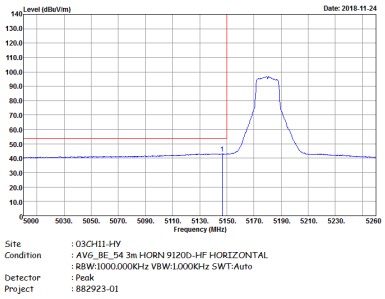
Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	**Temperature :**	22~25°C
		Relative Humidity :	50~57%

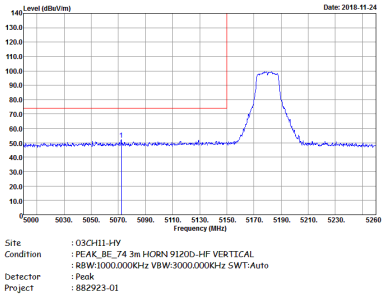
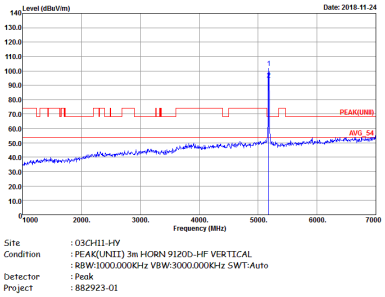
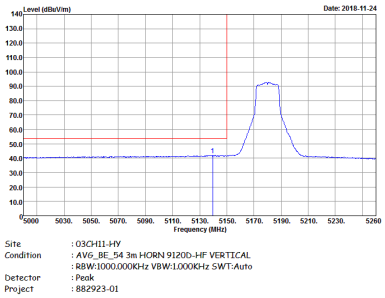
Note symbol

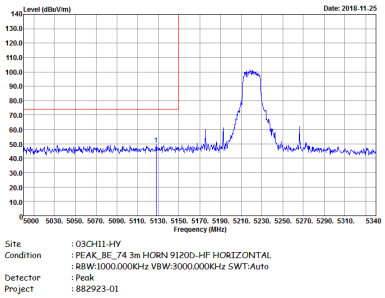
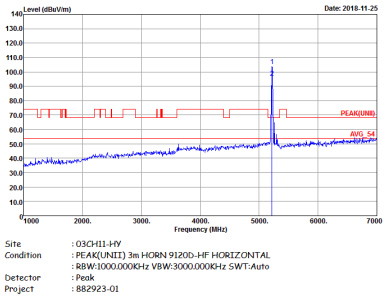
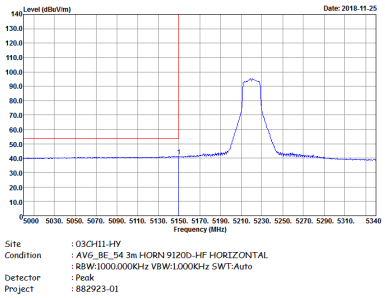
-L	**Low channel location**
-R	**High channel location**

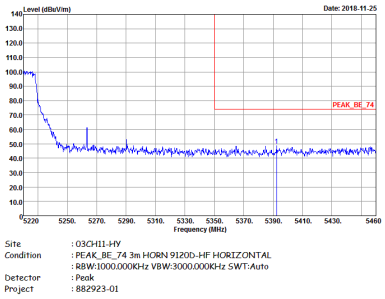
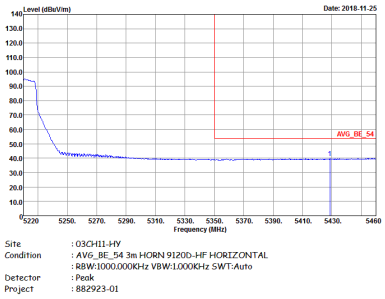
Band 1 - 5150~5250MHz

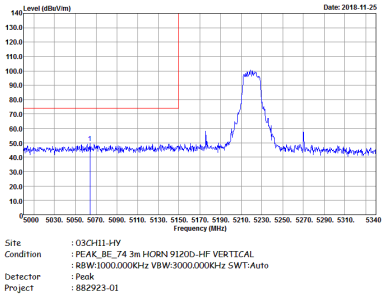
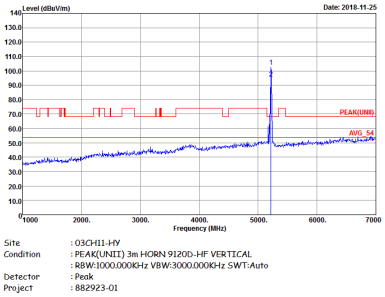
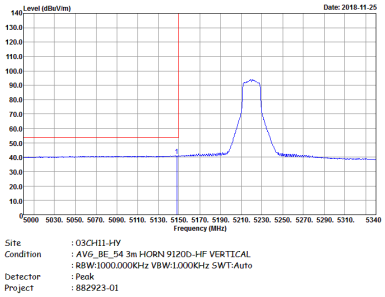
WIFI 802.11a (Band Edge @ 3m)

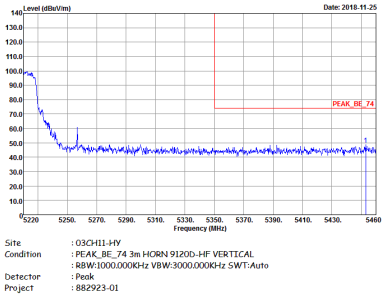
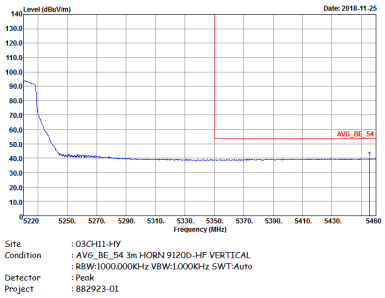
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

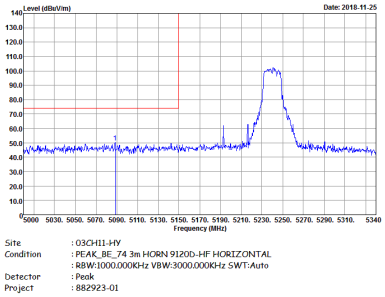
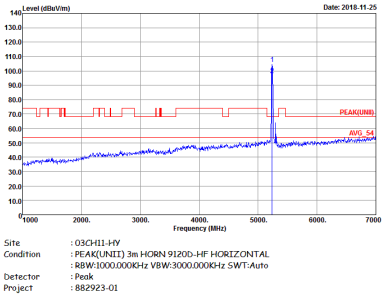
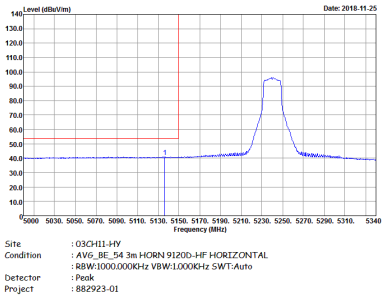
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

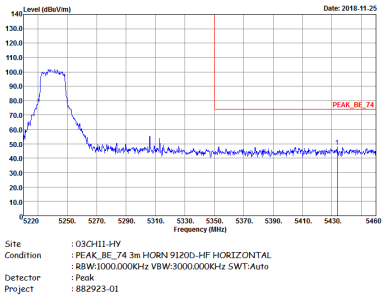
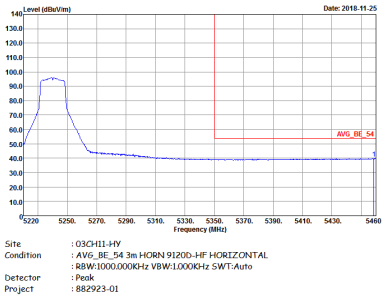
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

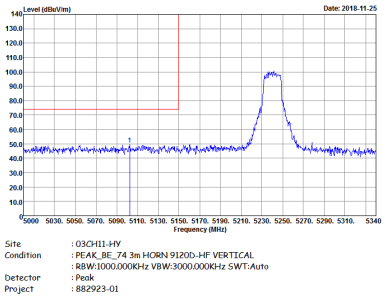
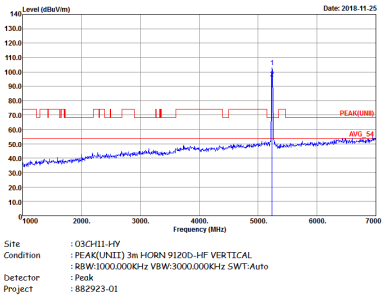
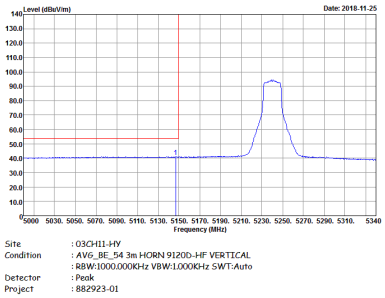
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

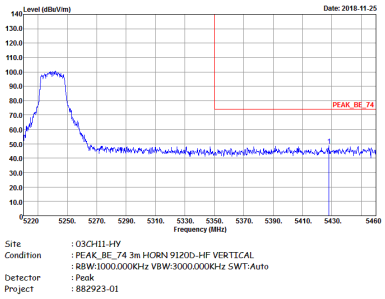
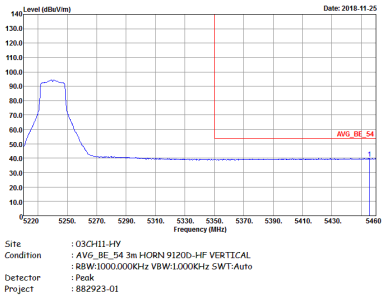
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

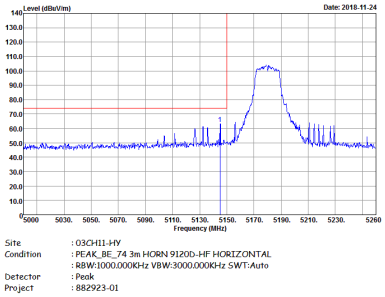
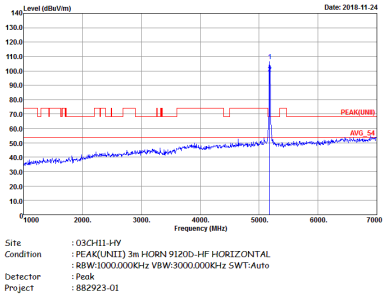
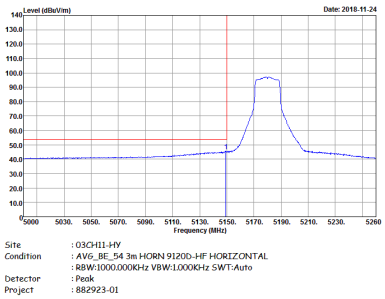
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

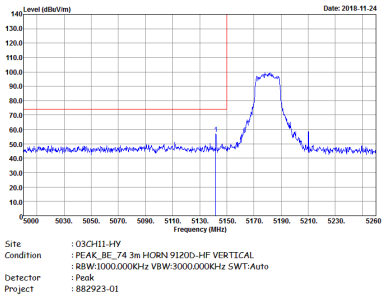
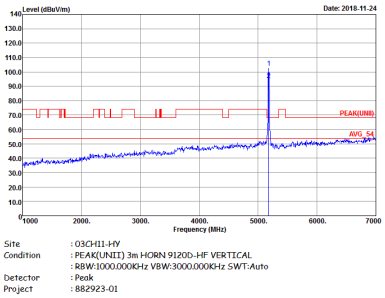
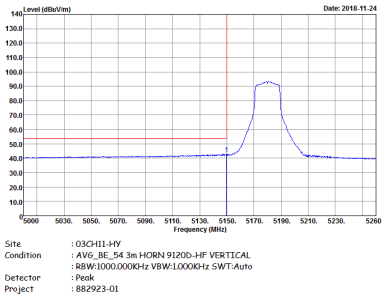
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

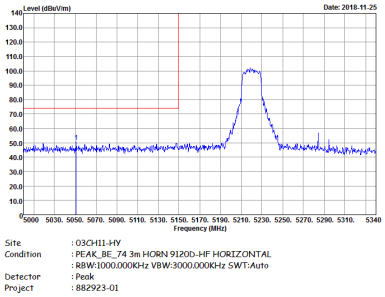
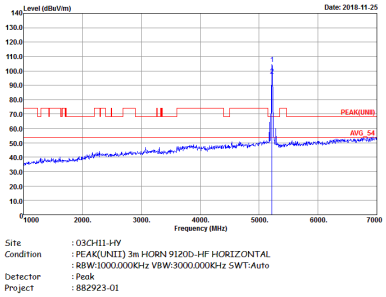
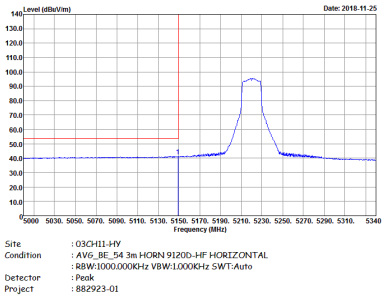
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

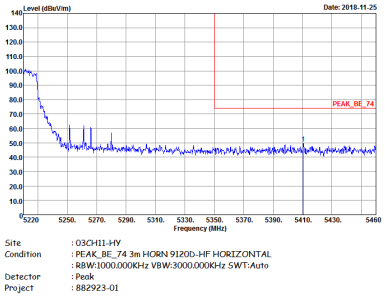
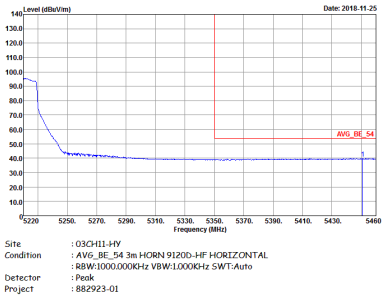
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

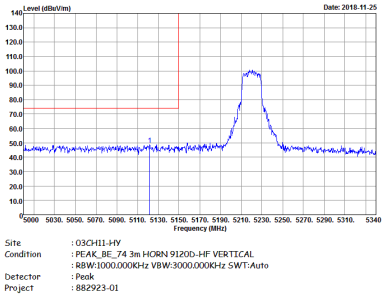
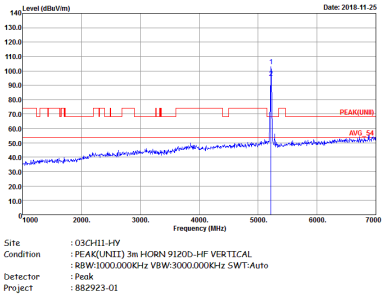
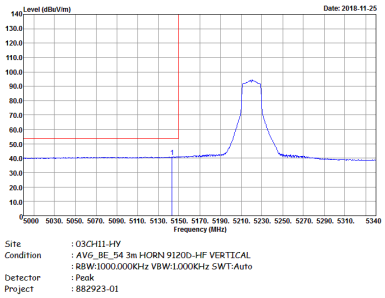
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

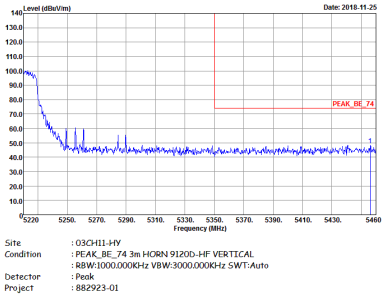
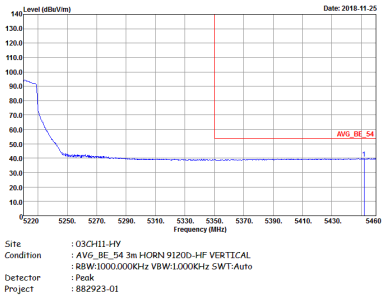
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

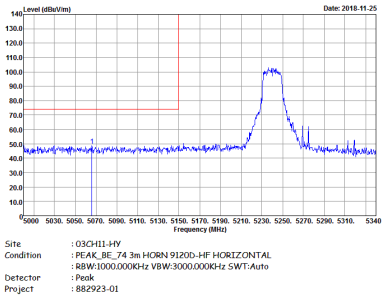
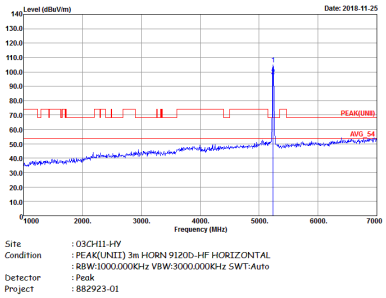
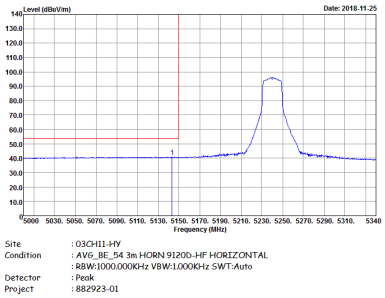
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

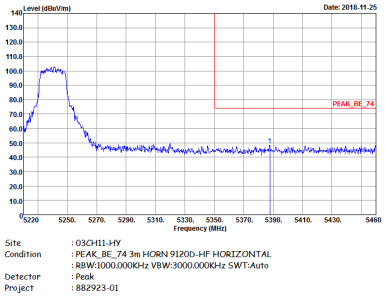
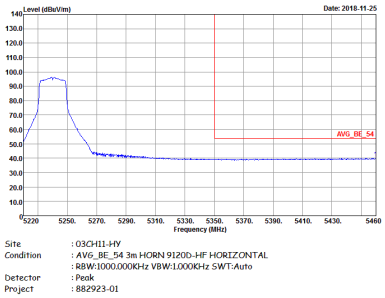
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

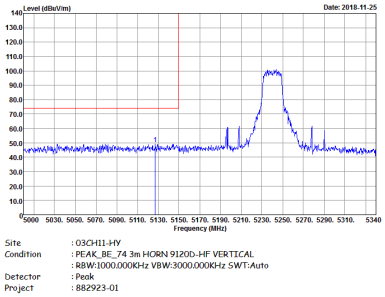
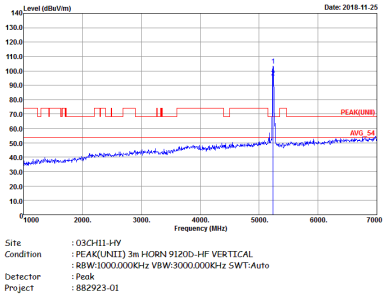
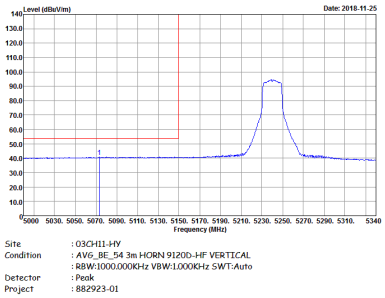
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

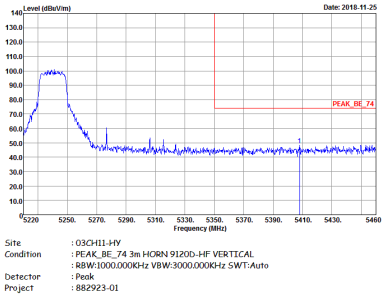
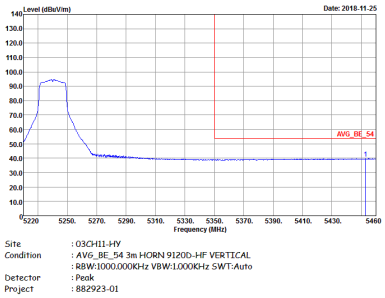
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

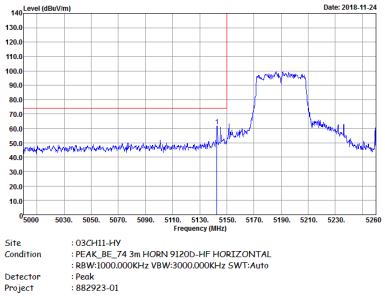
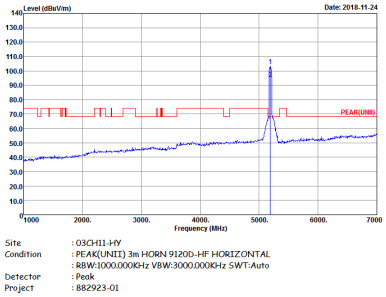
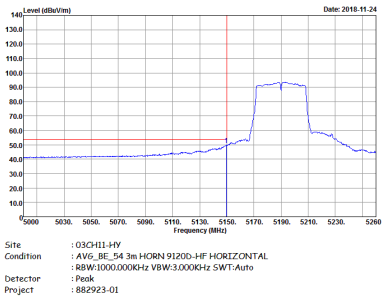
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

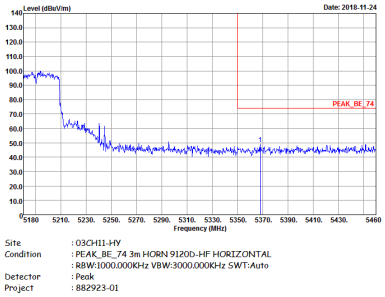
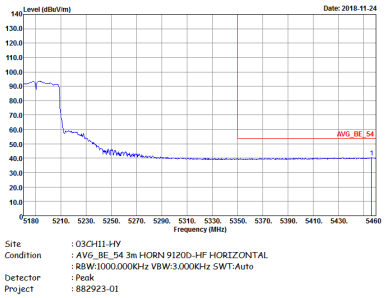
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

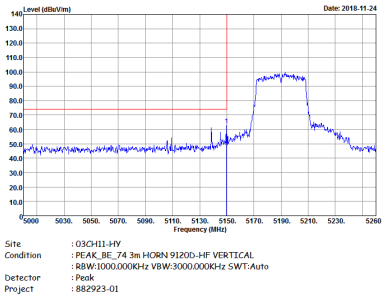
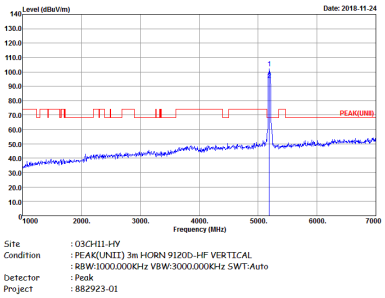
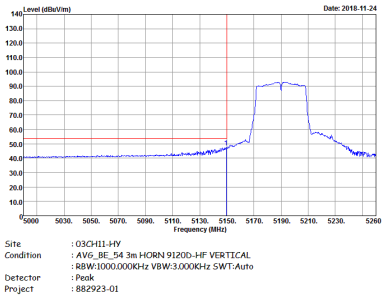
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

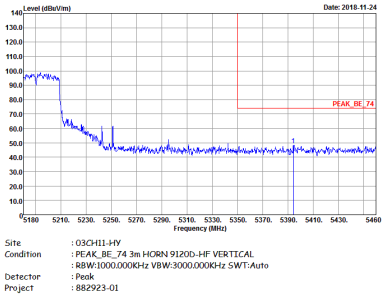
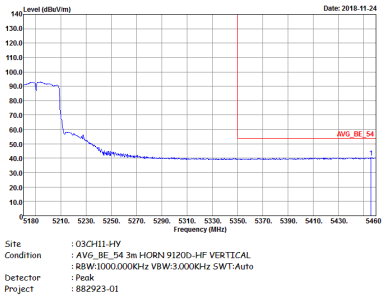
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

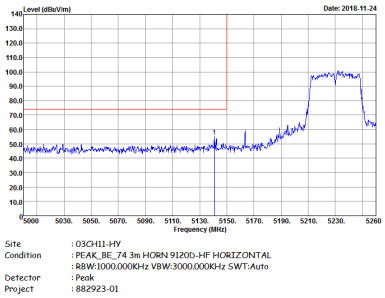
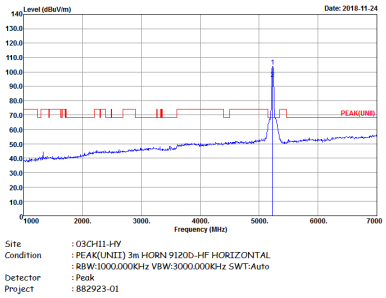
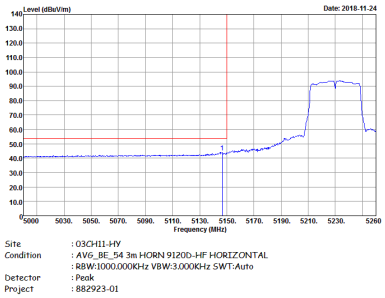
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

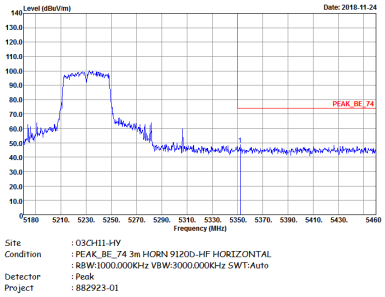
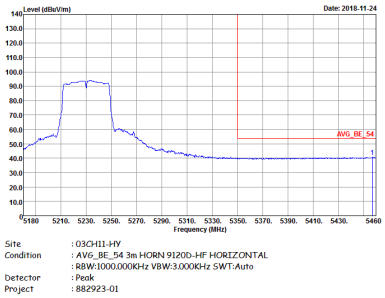
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

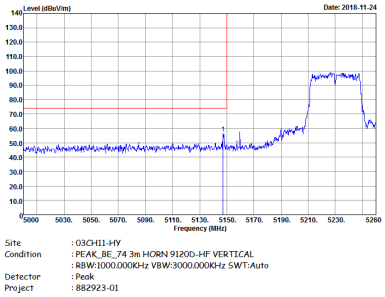
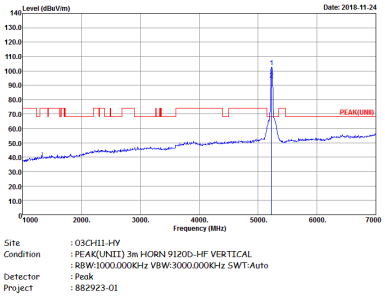
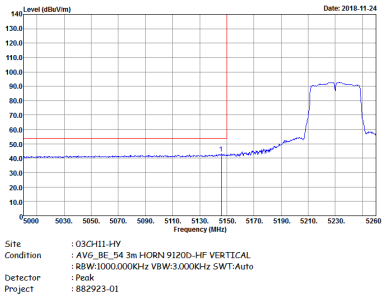
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

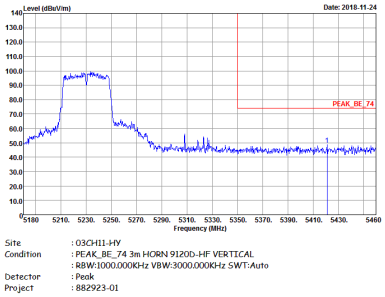
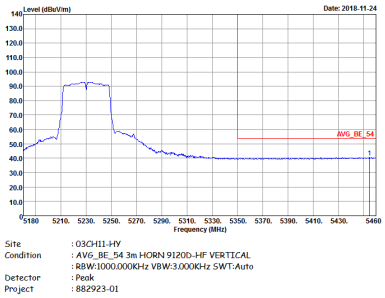
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

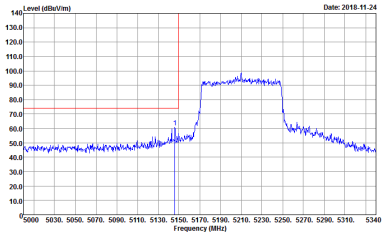
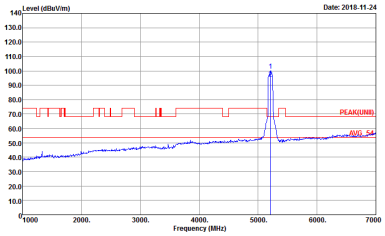
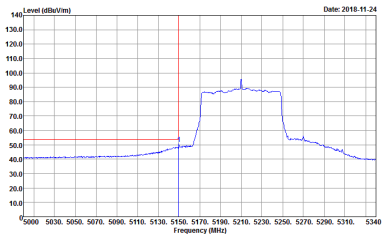
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

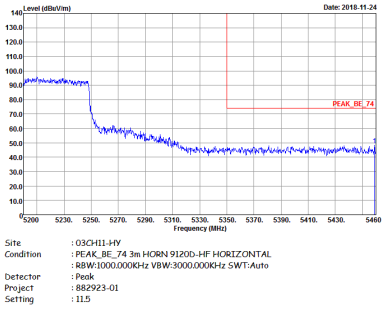
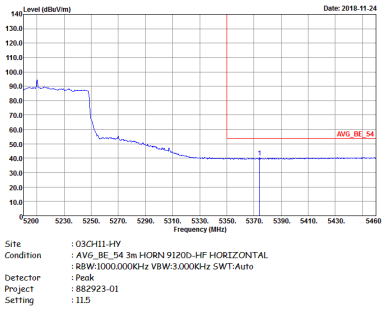
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

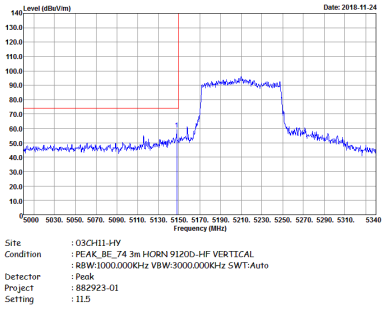
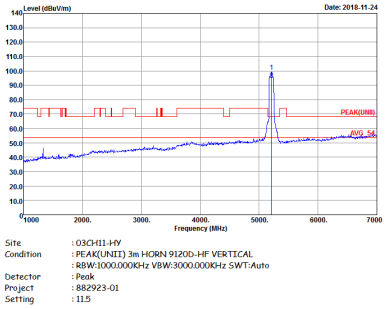
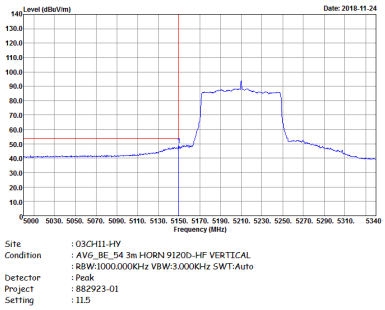
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

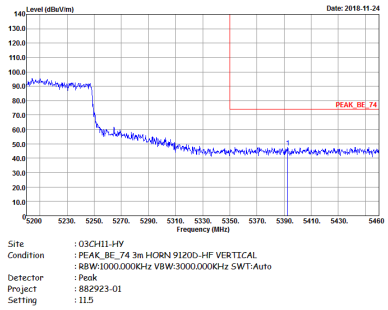
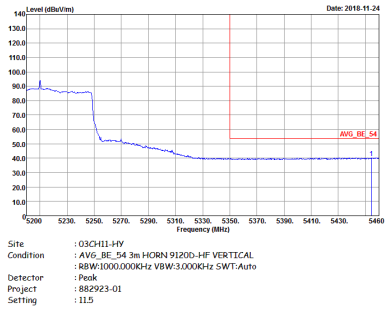
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11.5	Left blank

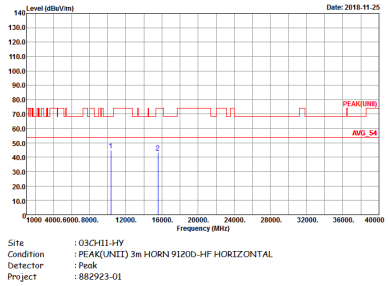
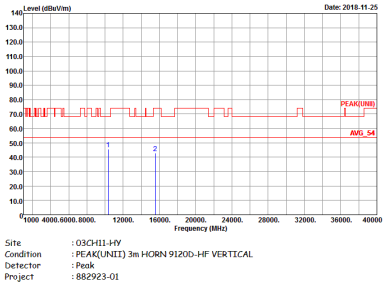
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

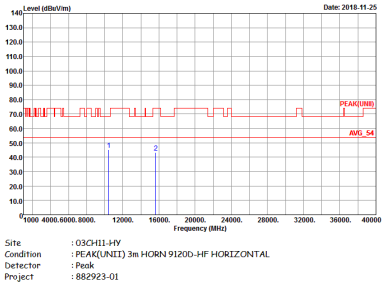
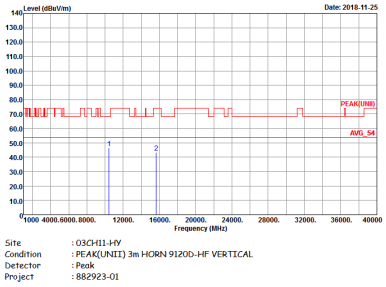
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

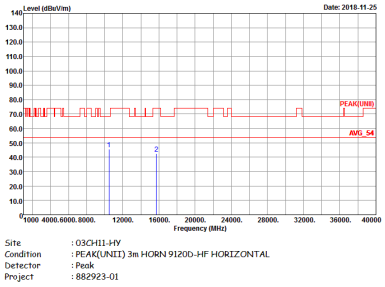
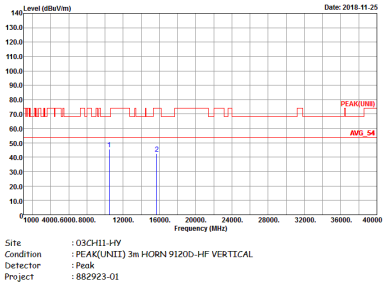
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

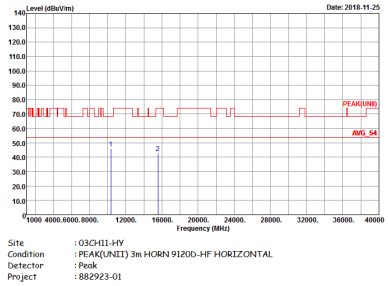
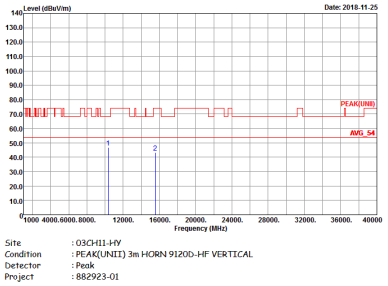
WIFI 802.11a (Harmonic @ 3m)

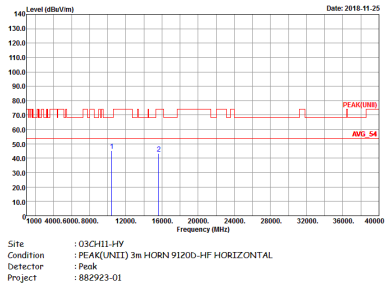
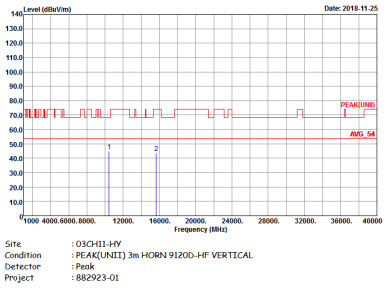
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

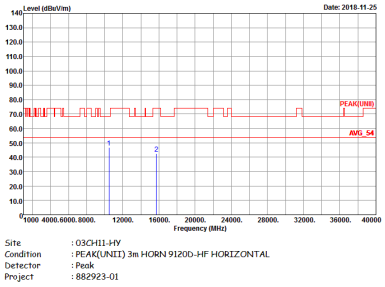
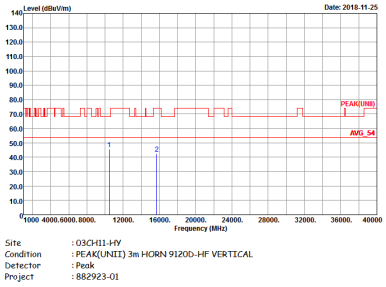
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

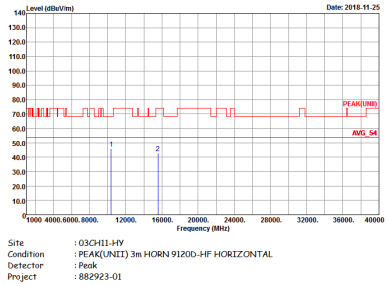
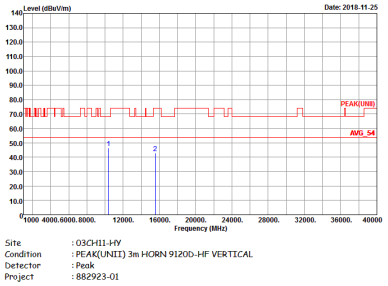
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

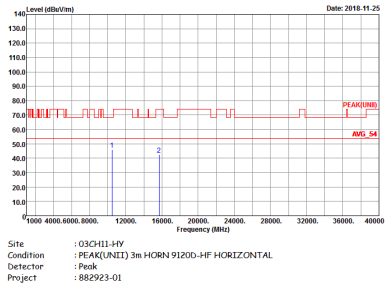
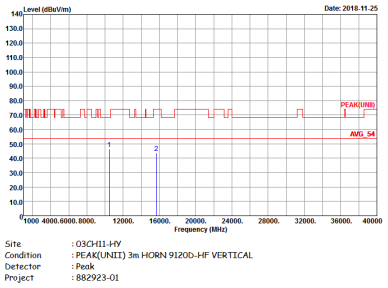
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

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

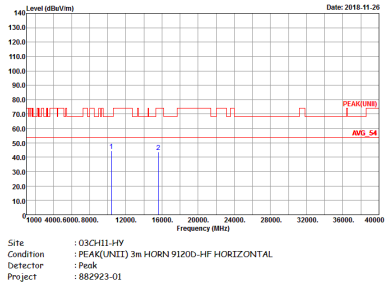
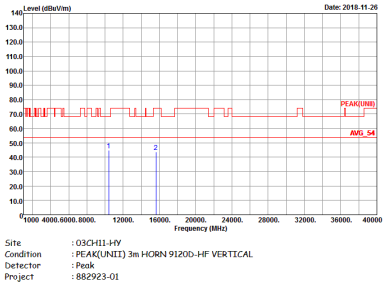
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

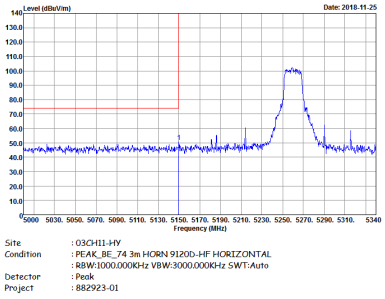
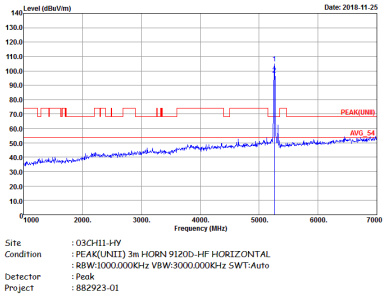
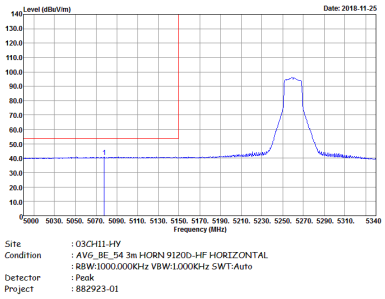
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

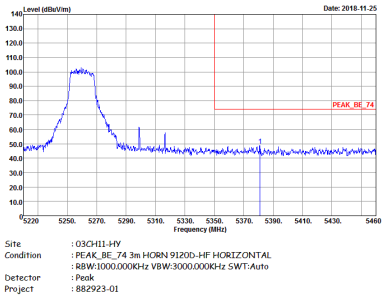
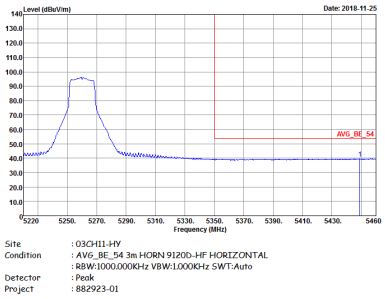
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

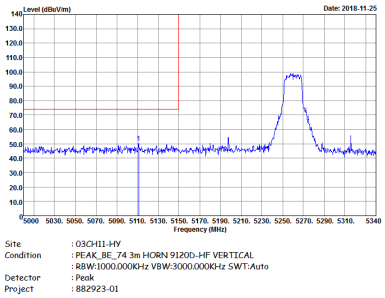
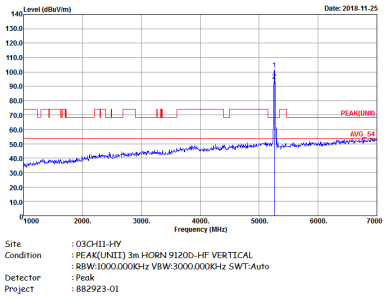
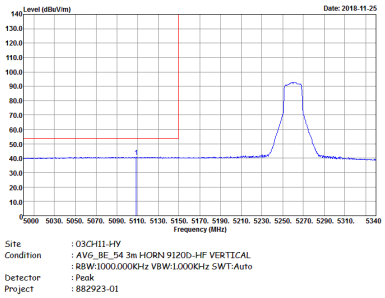
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

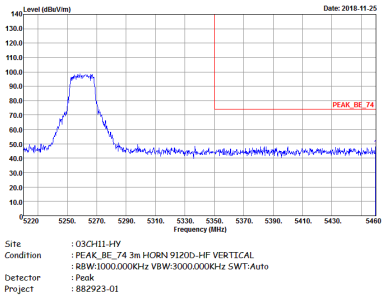
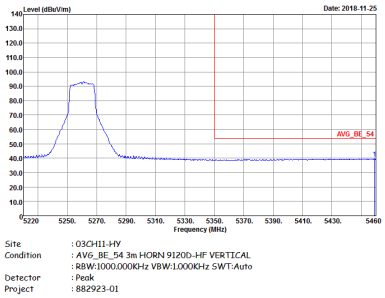
Band 2 - 5250~5350MHz

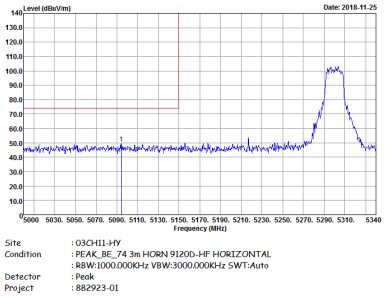
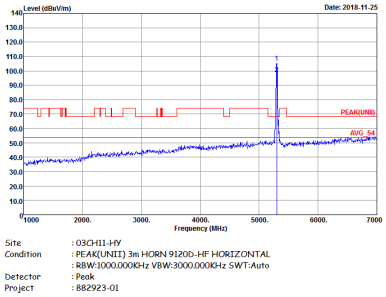
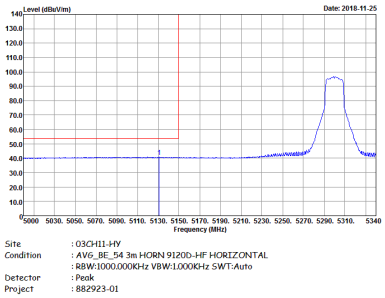
WIFI 802.11a (Band Edge @ 3m)

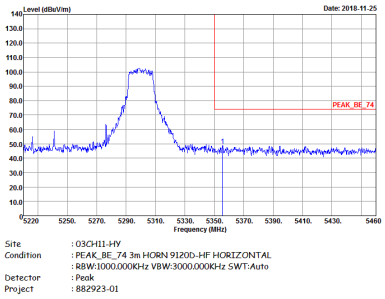
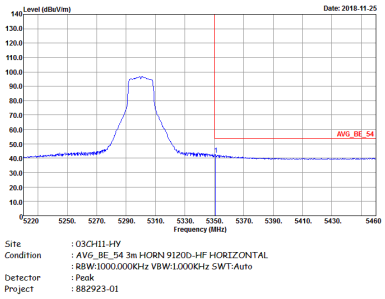
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

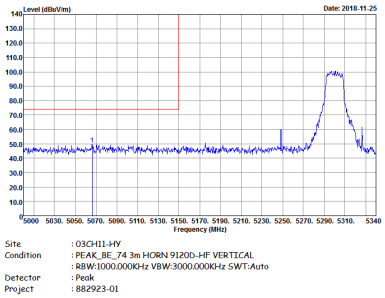
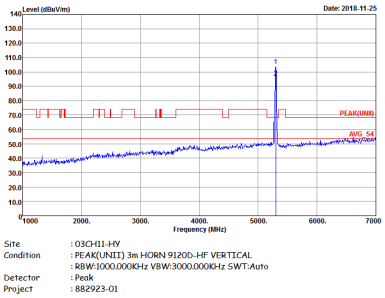
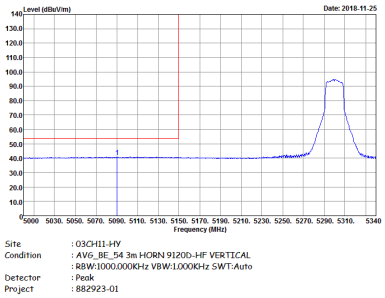
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

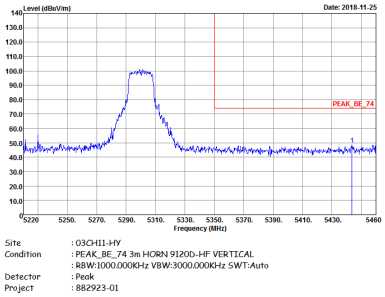
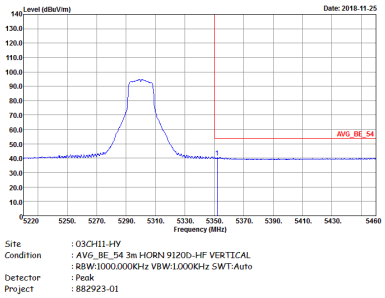
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

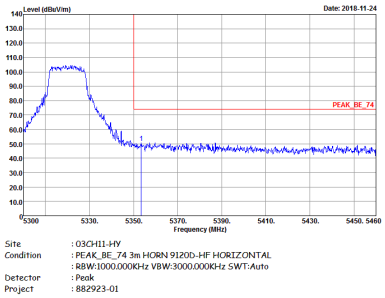
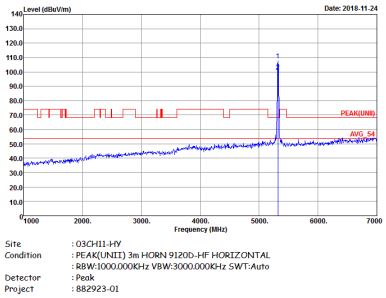
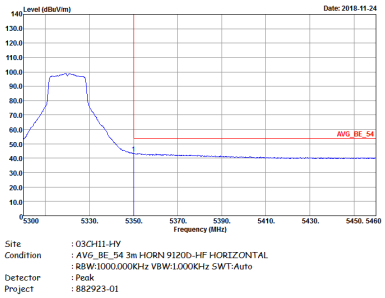
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

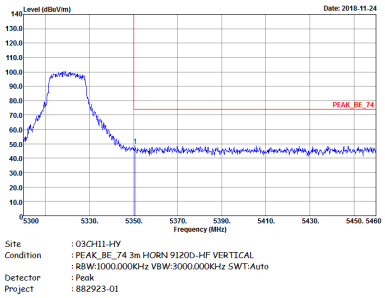
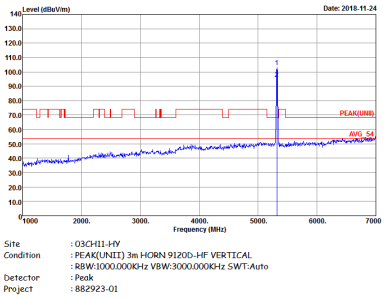
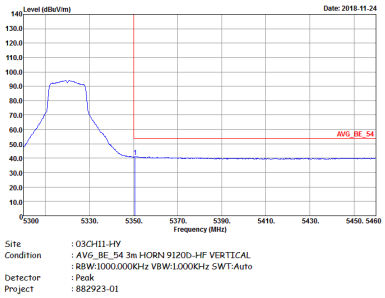
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

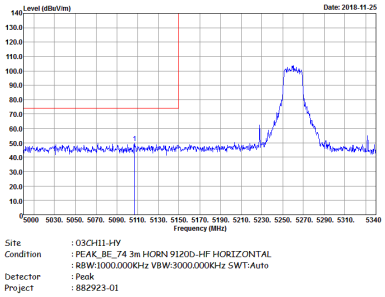
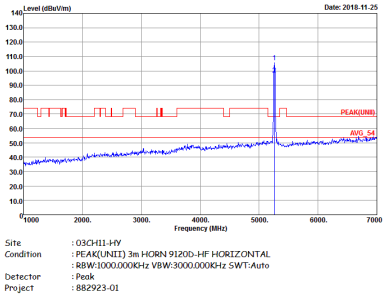
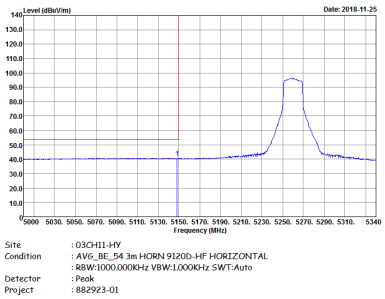
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

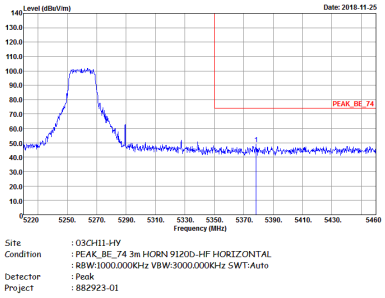
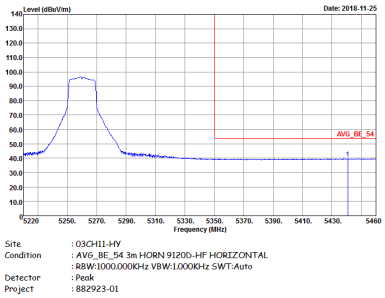
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

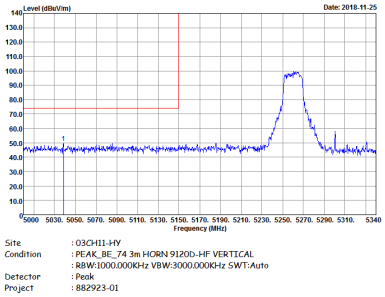
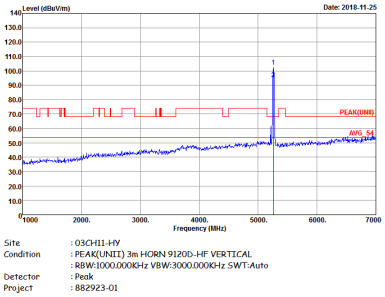
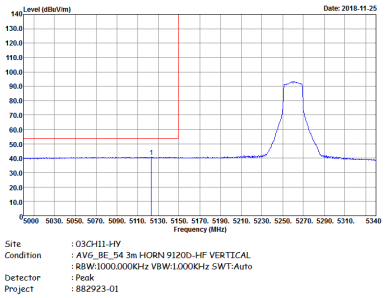
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

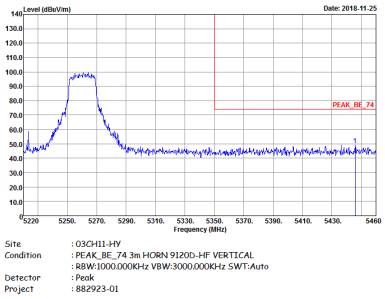
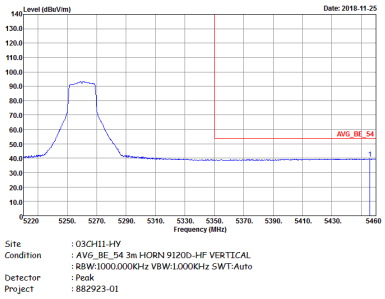
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

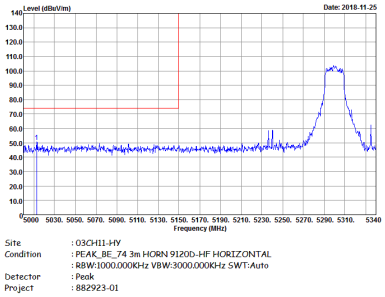
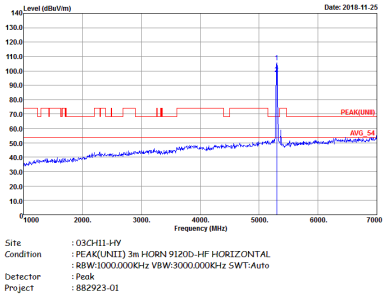
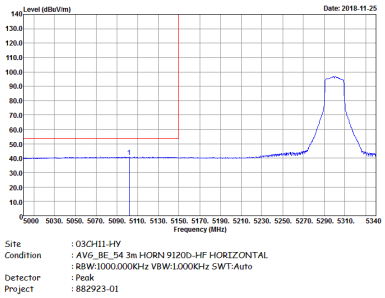
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

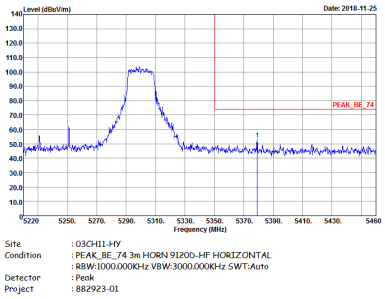
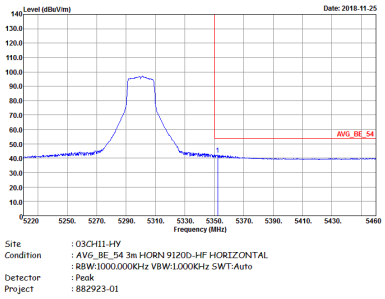
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

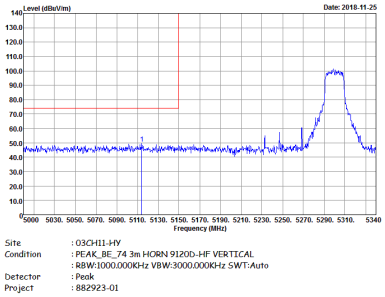
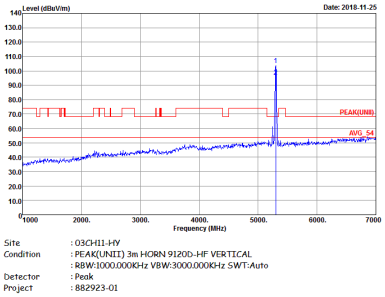
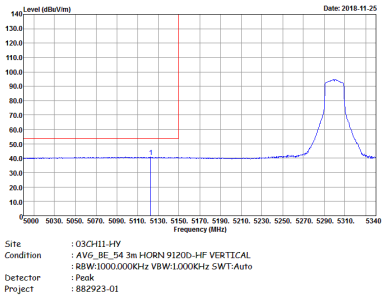
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

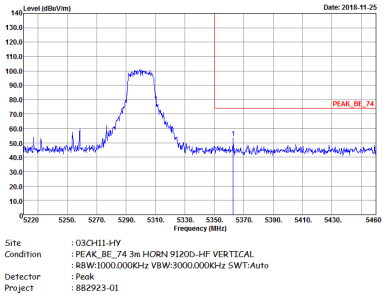
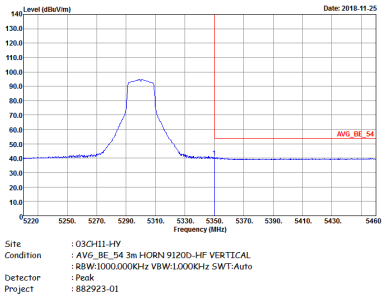
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

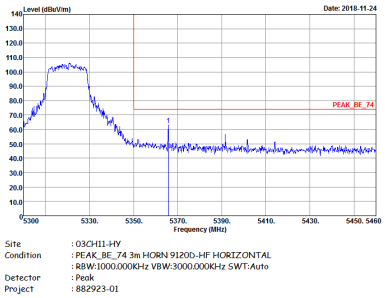
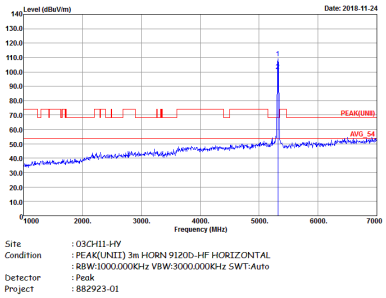
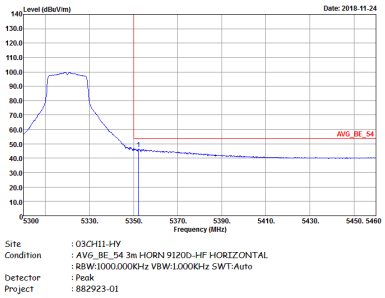
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

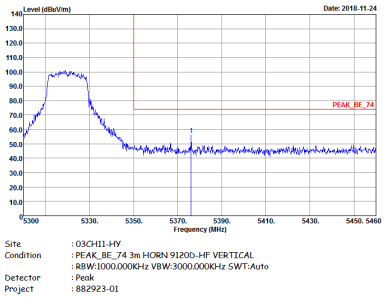
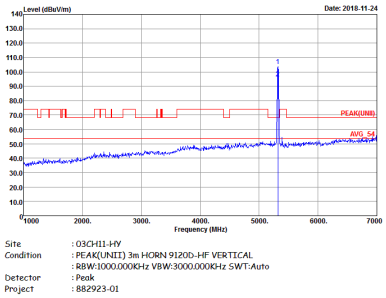
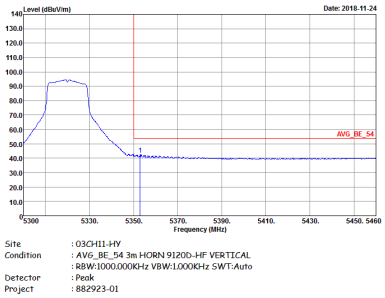
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

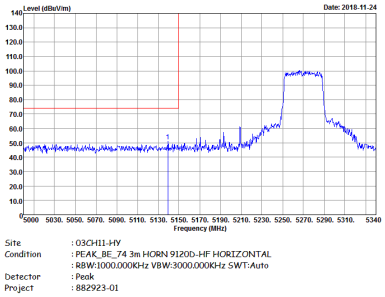
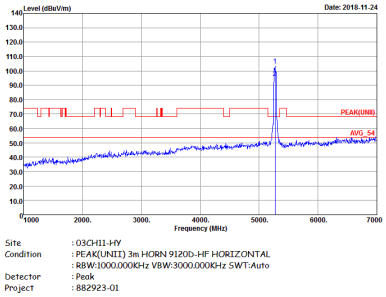
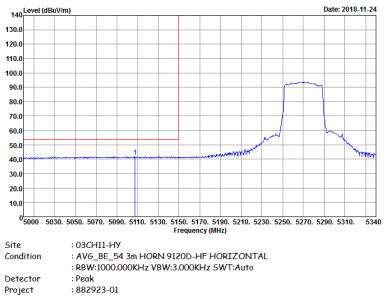
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

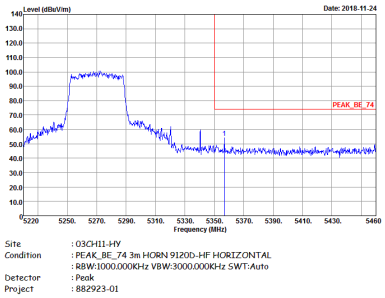
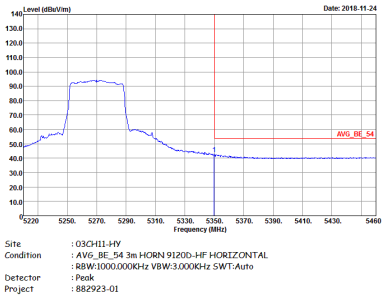
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

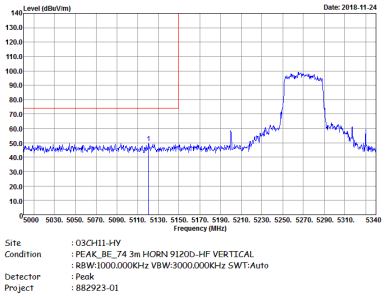
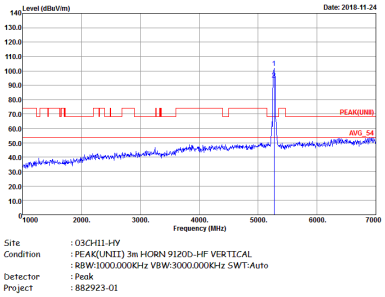
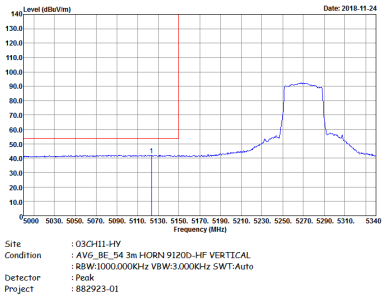
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

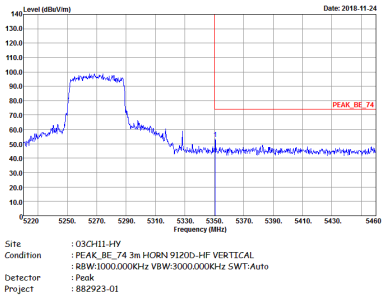
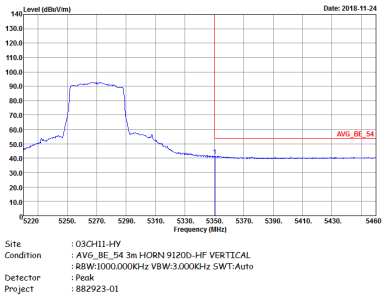
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

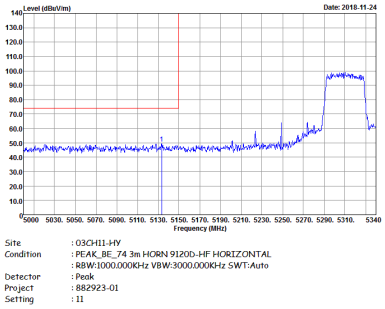
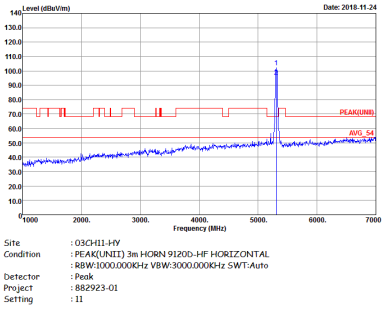
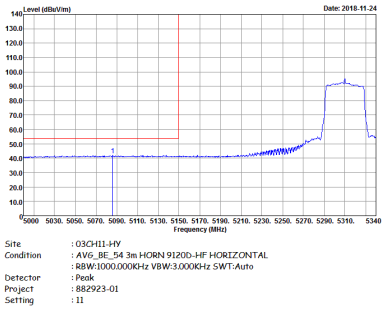
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

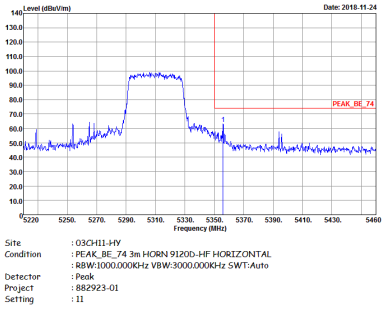
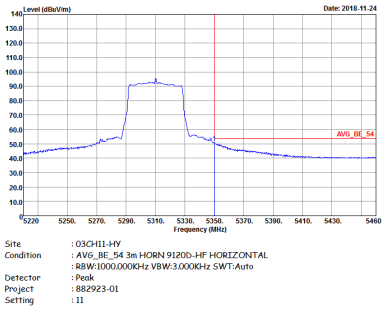
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

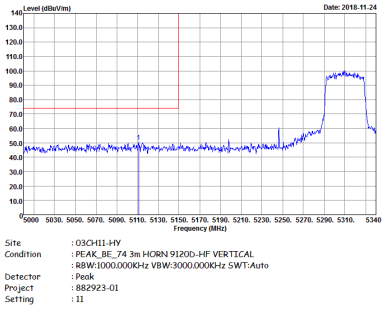
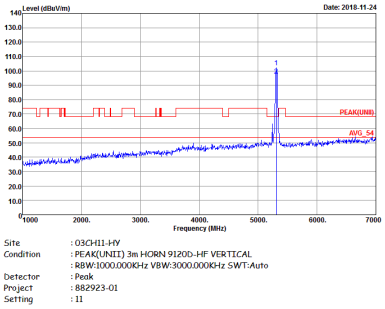
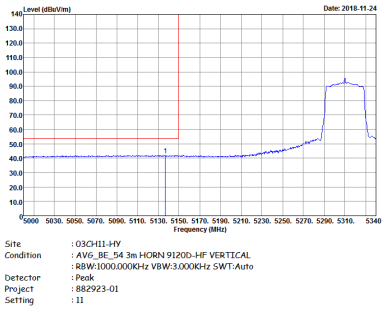
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

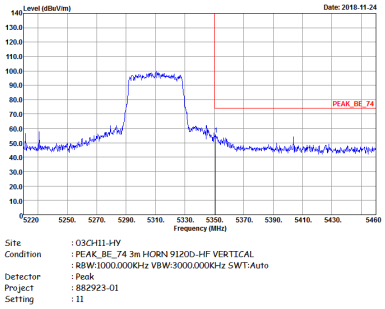
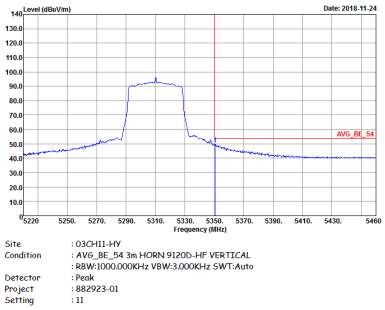
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

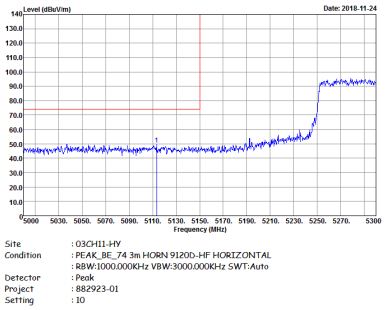
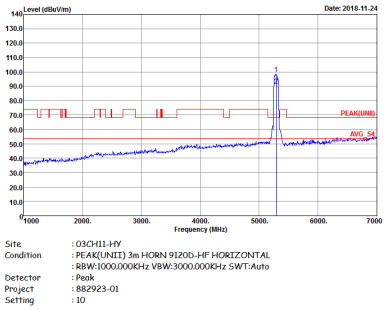
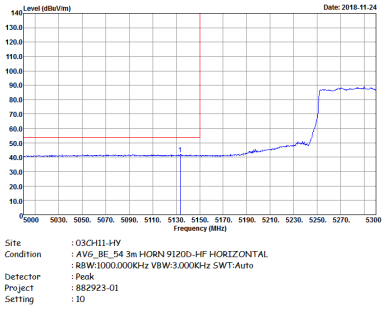
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

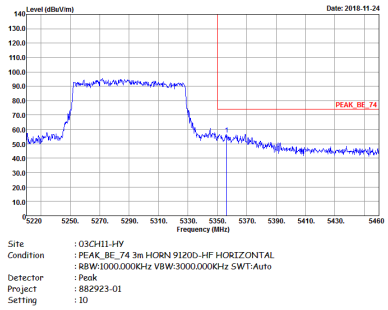
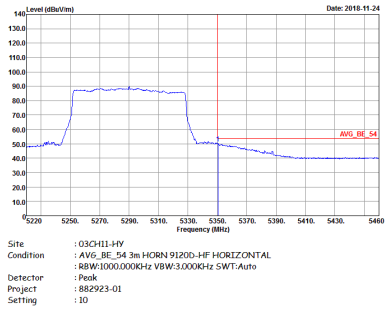
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

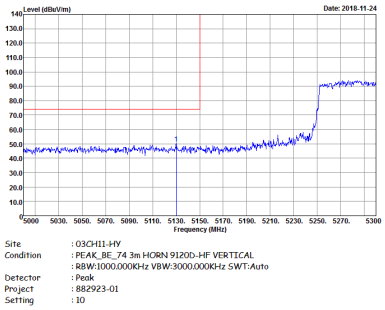
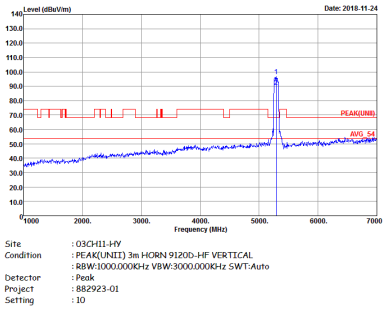
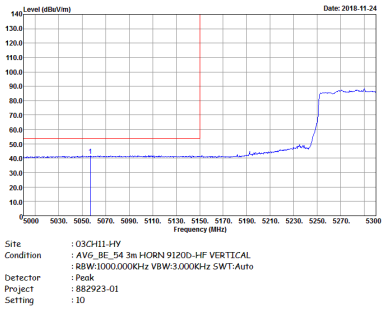
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

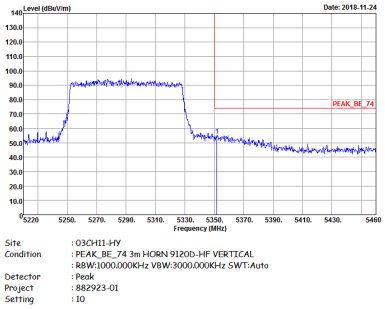
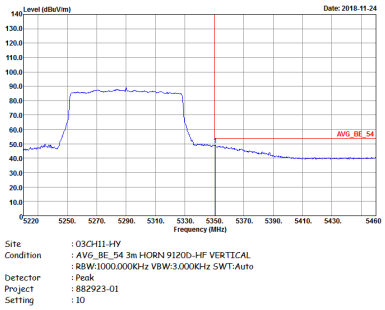
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

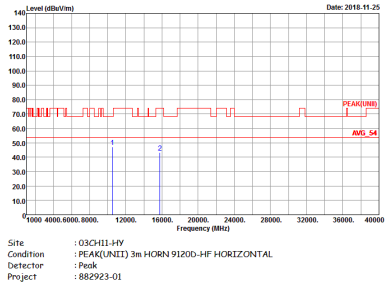
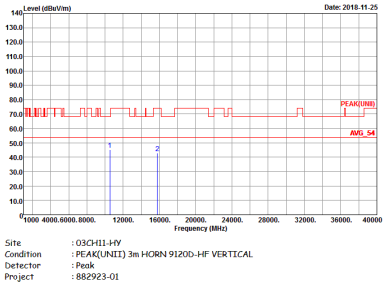
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

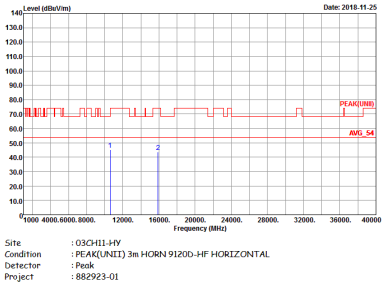
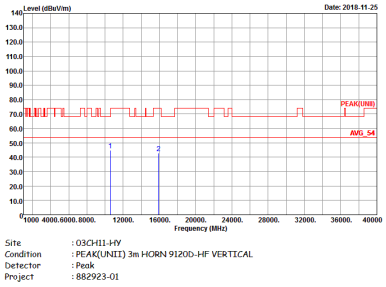
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

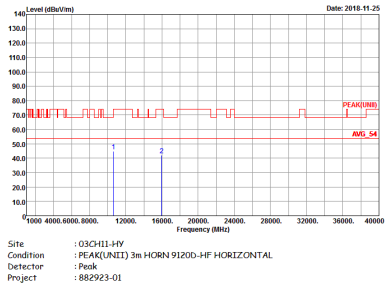
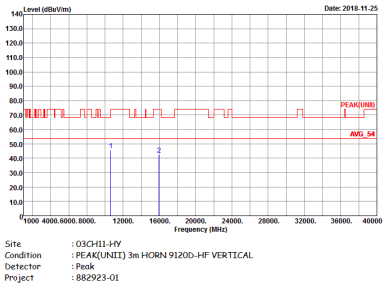
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

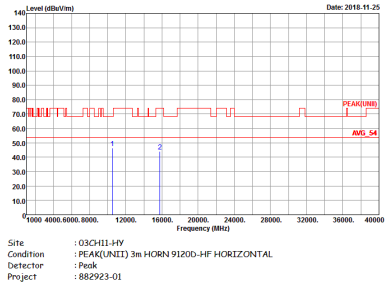
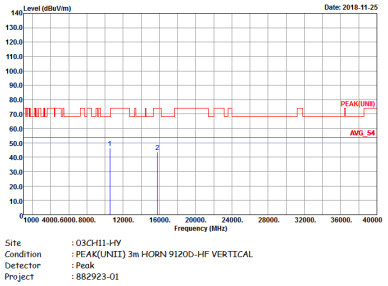
WIFI 802.11a (Harmonic @ 3m)

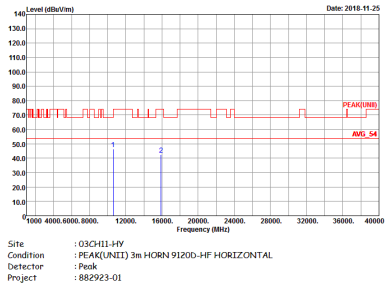
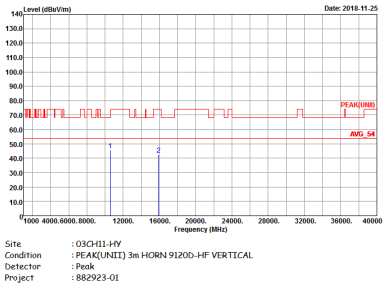
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

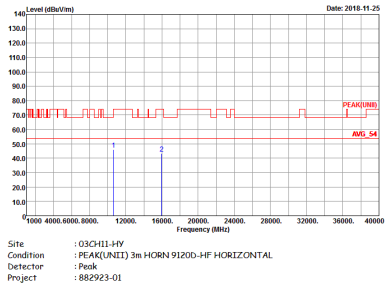
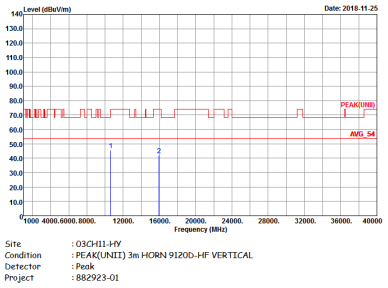
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

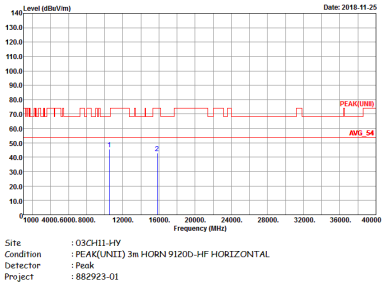
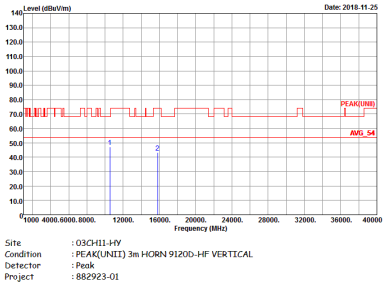
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

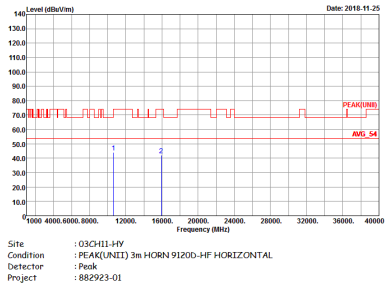
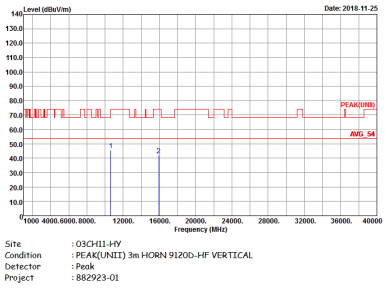
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

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

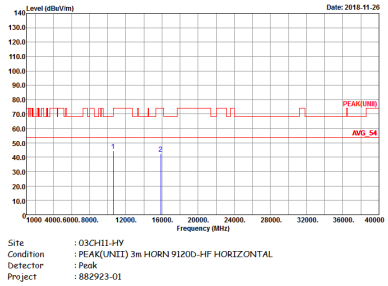
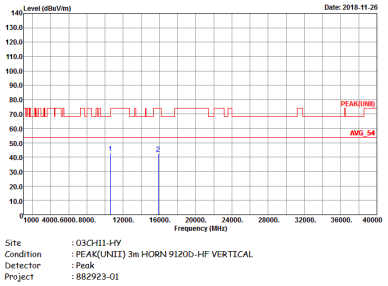
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

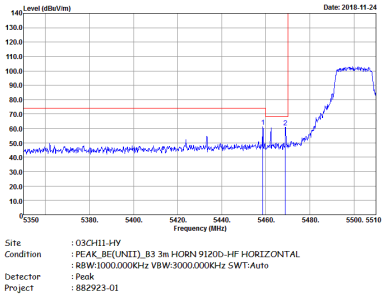
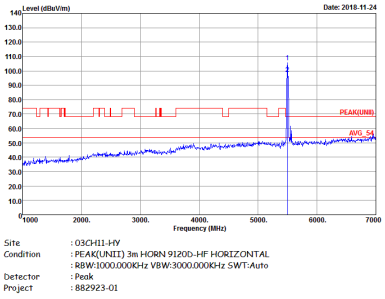
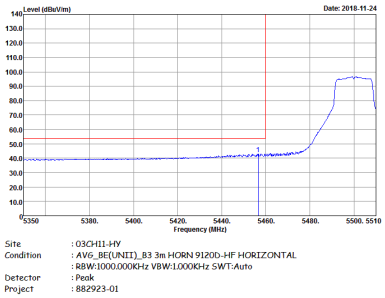
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

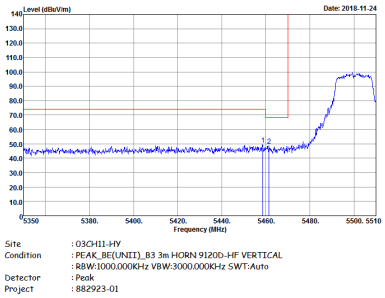
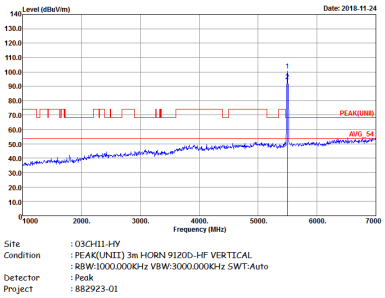
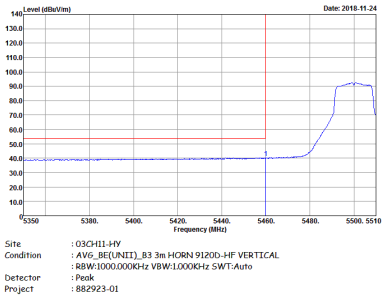
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

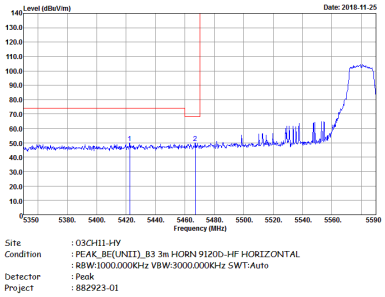
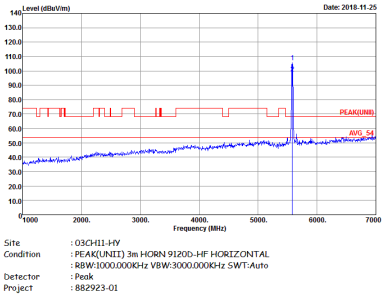
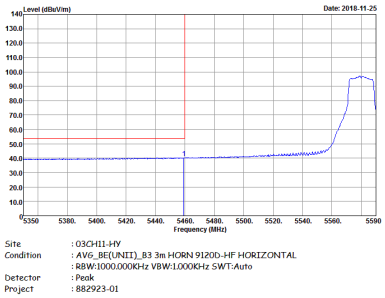
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak Avg.		

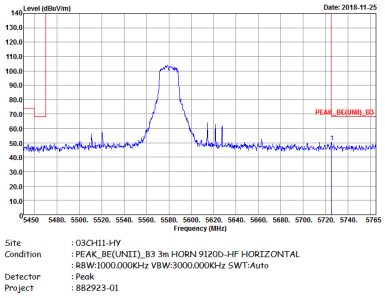
Band 3 - 5470~5725MHz

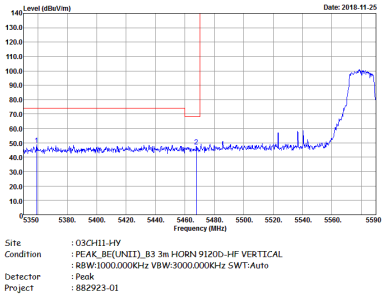
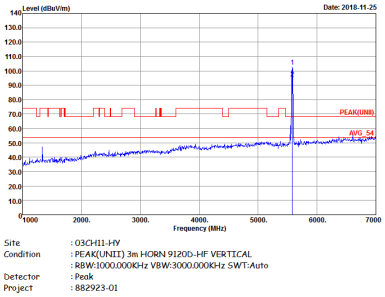
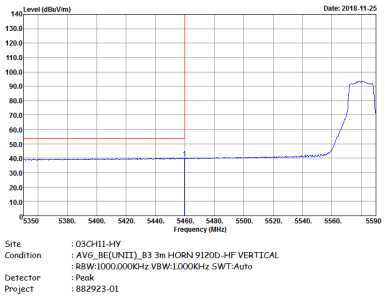
WIFI 802.11a (Band Edge @ 3m)

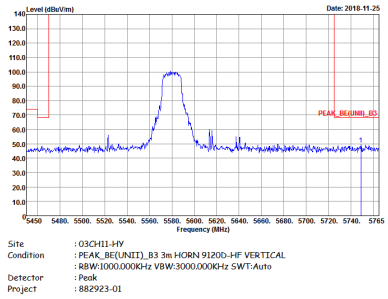
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

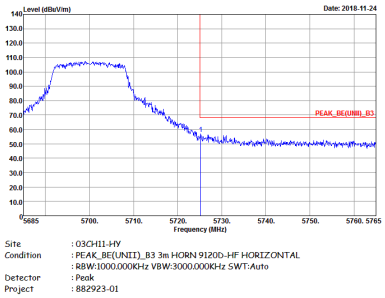
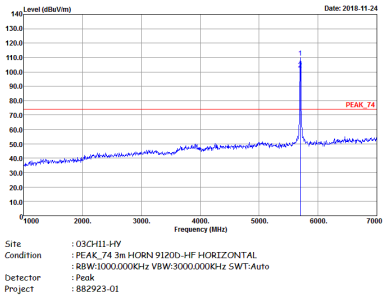
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

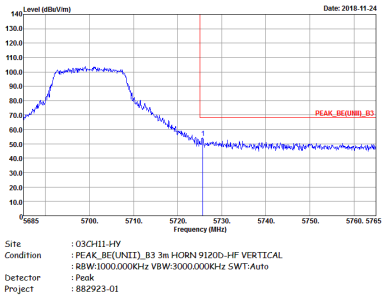
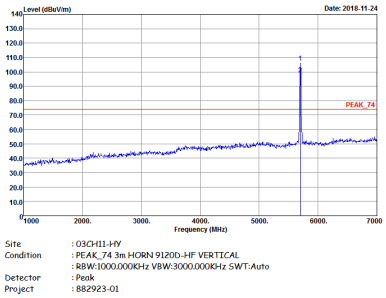
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

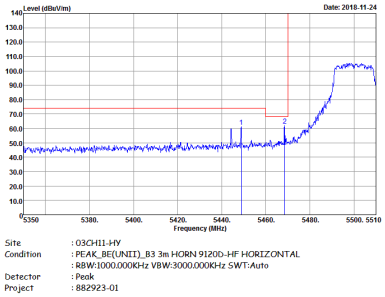
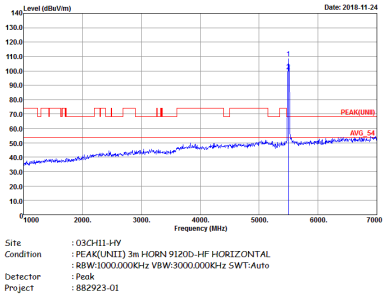
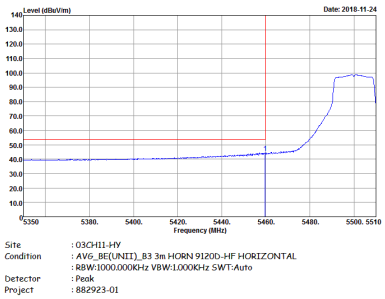
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

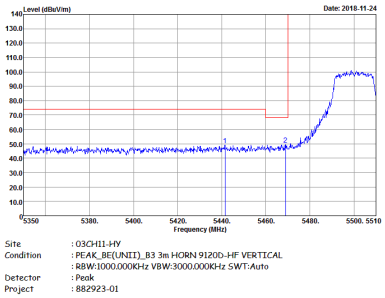
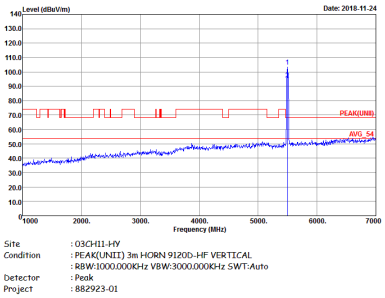
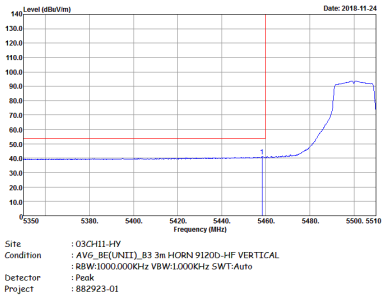
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

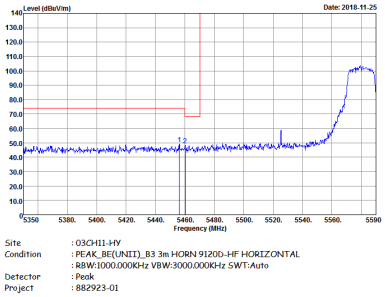
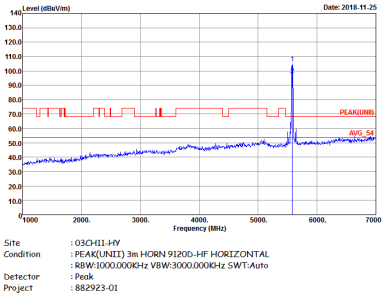
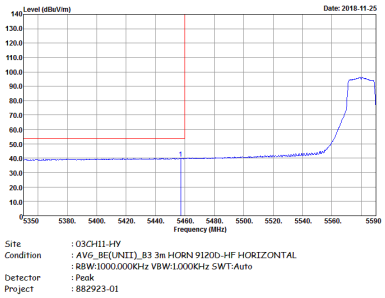
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

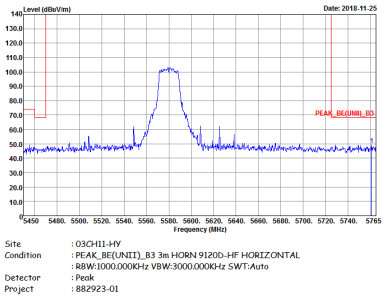
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

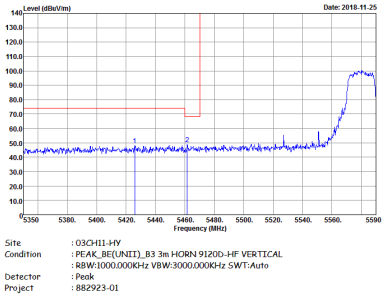
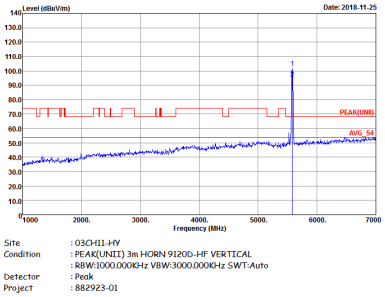
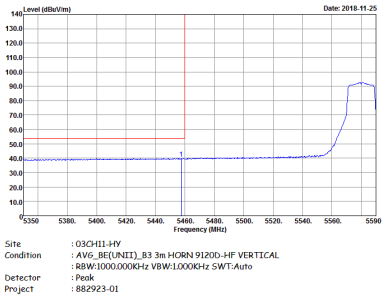
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

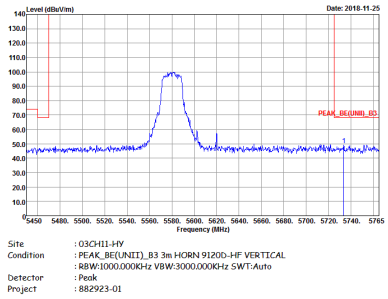
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

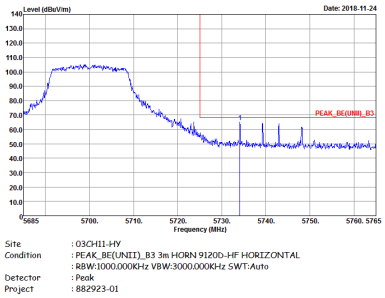
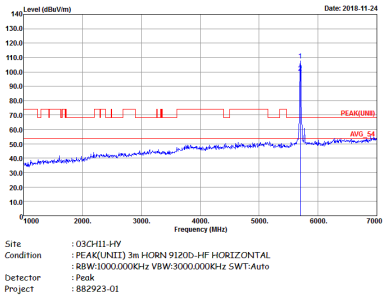
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

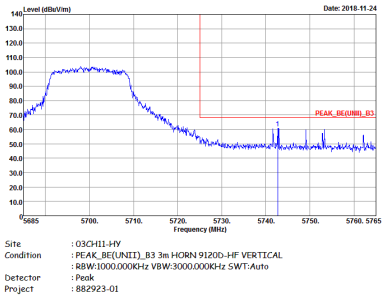
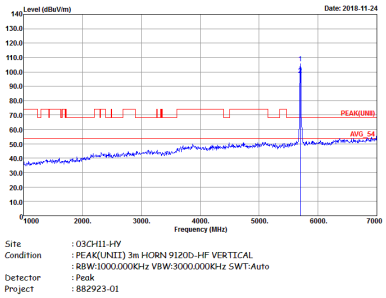
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

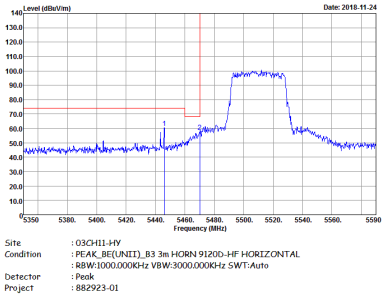
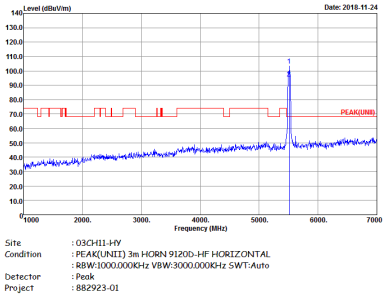
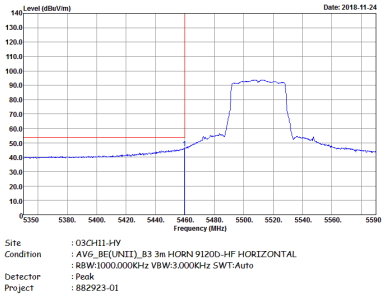
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

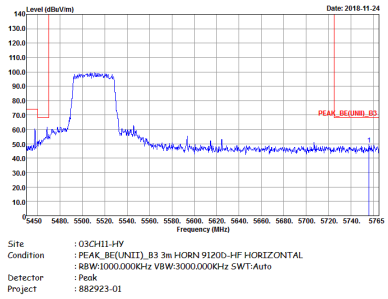
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

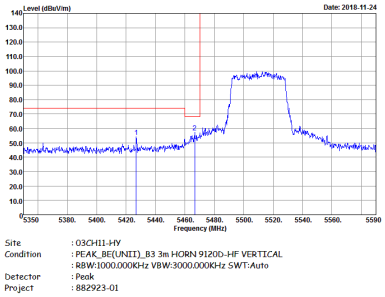
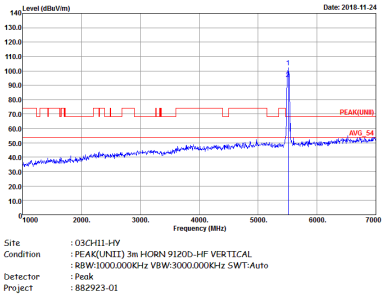
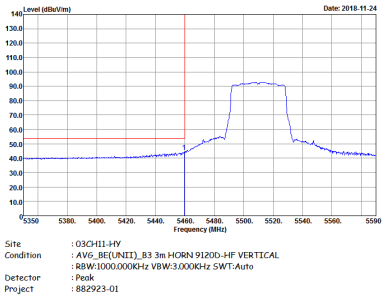
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

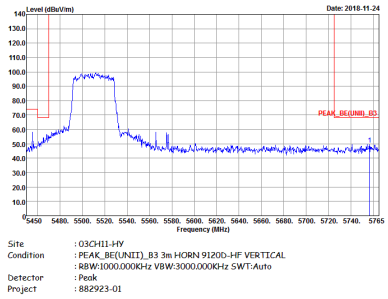
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

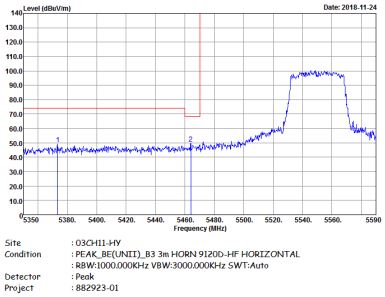
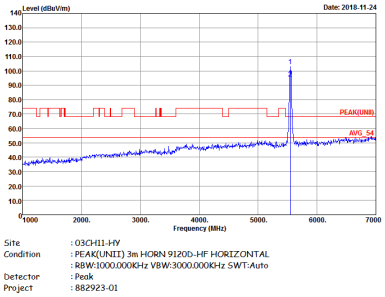
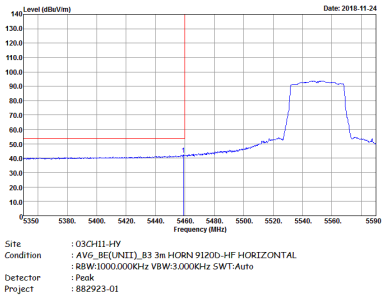
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

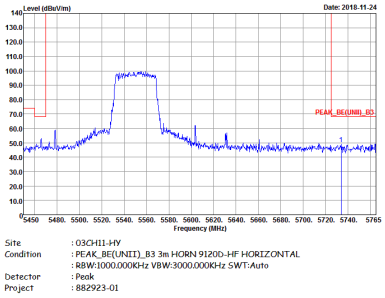
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

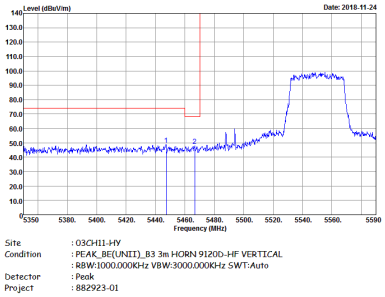
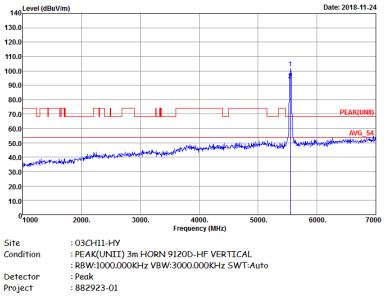
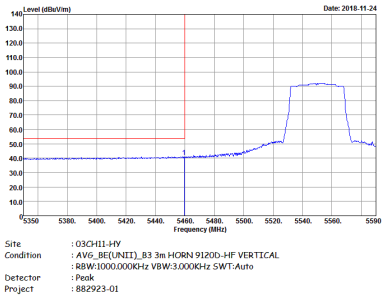
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

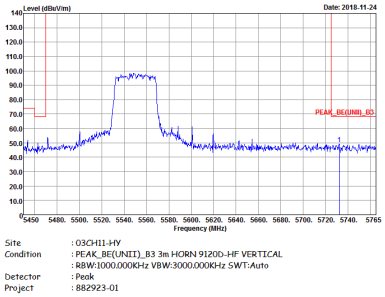
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

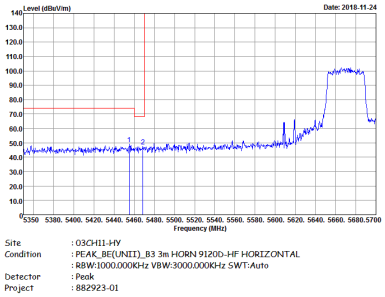
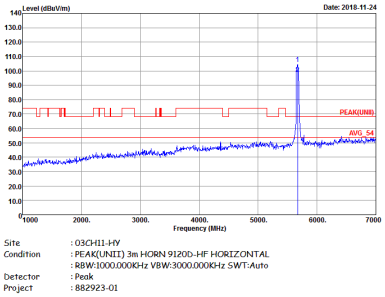
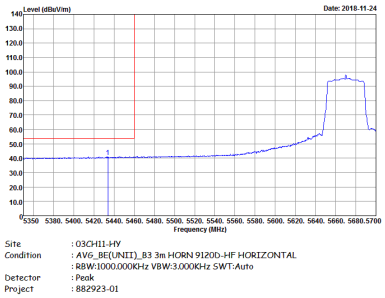
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

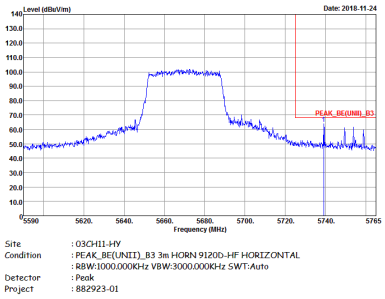
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

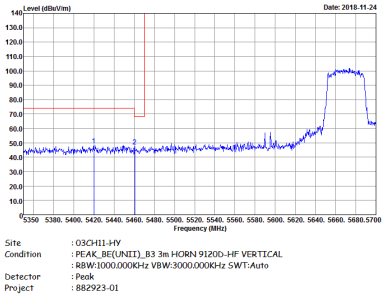
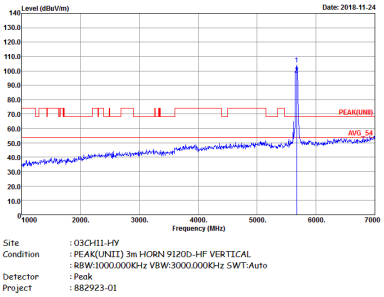
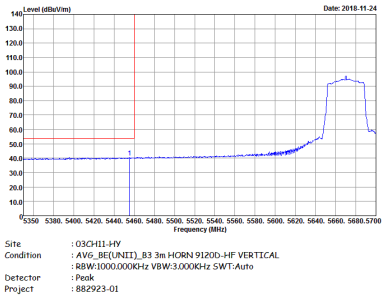
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

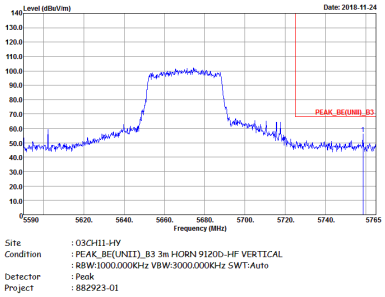
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

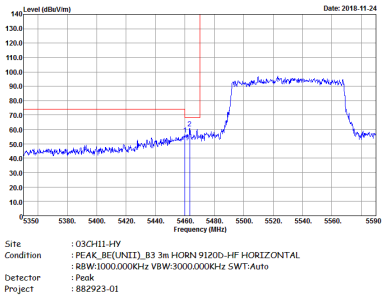
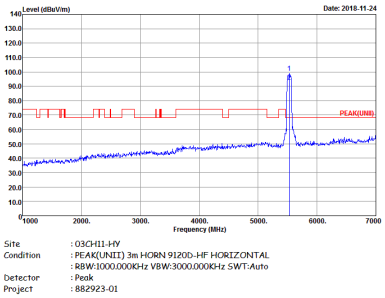
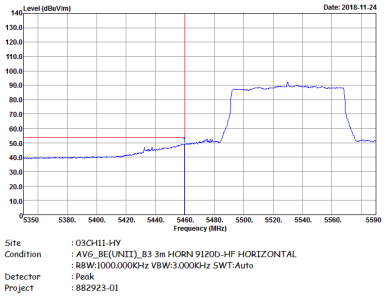
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
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 : 882923-01	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		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 802.11ac VHT80 (Band Edge @ 3m)

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