FCC RADIO TEST REPORT

FCC ID	:	**PY7-04706A**
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. 14, 2018 and testing was started from Sep. 04, 2018 and completed on Nov. 23, 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.

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR881333-01E	01	Initial issue of report	Dec. 10, 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 3.59 dB at 5350.800 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.47 dB at 1.066 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	Coupling Antenna
Antenna Type / Gain	**<5150 MHz ~ 5250 MHz>** -3.50 dBi **<5250 MHz ~ 5350 MHz>** -3.50 dBi **<5470 MHz ~ 5725 MHz>** -2.10 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	1.156	CQ30013GV5	RF conducted measurement
		CQ30019G11	Radiated Spurious Emission
		CQ30019FT5	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 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	03CH07-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	**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

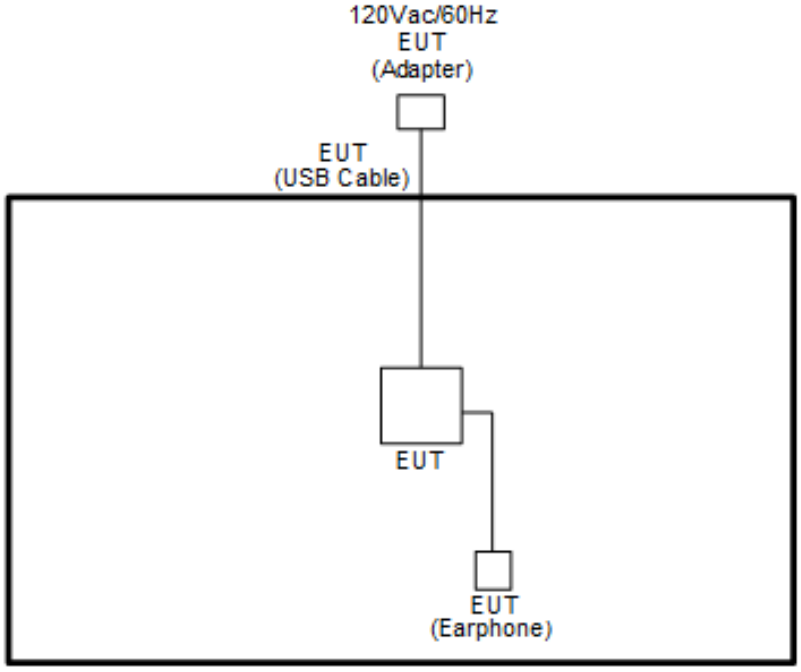
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

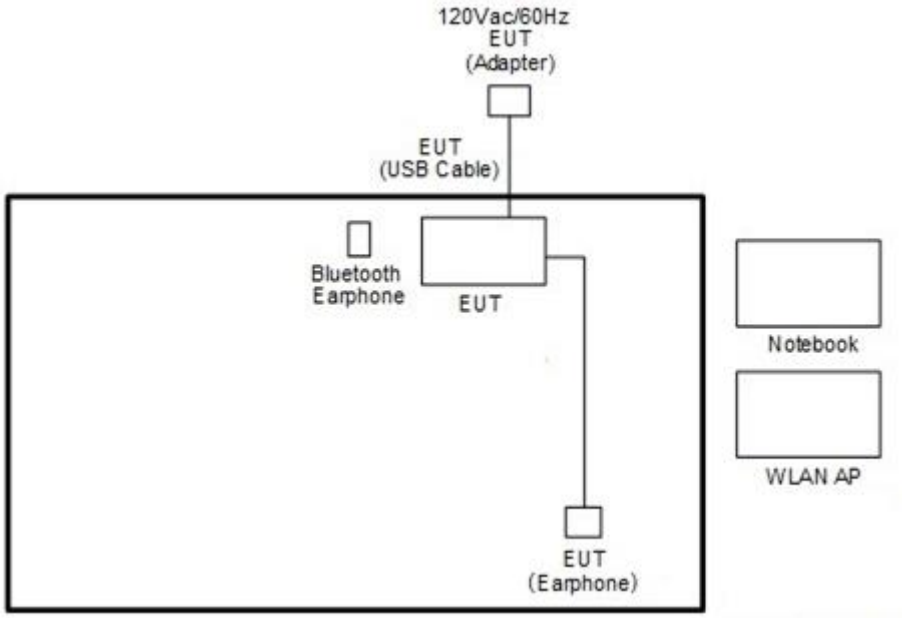
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	-
Straddle		-	-	138

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

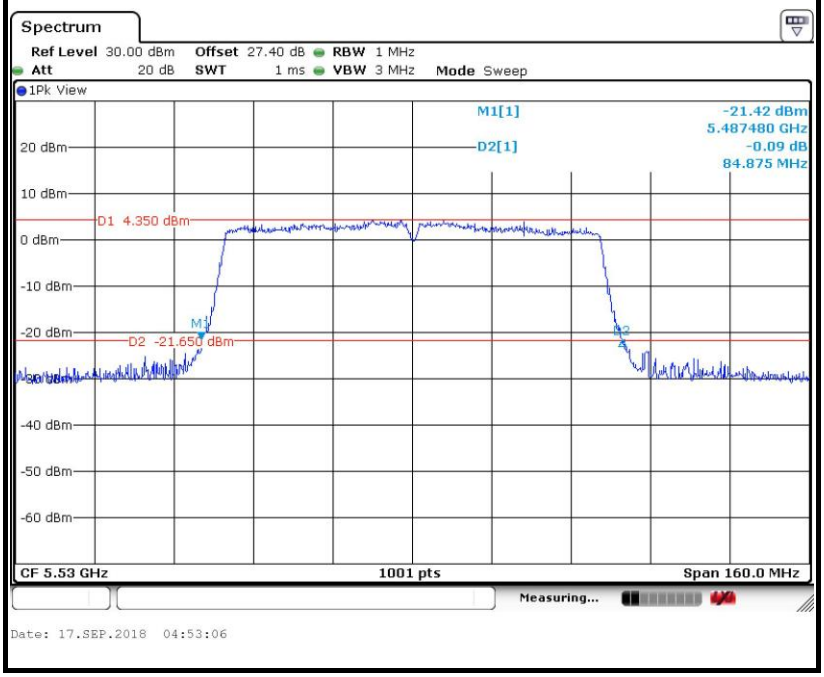
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

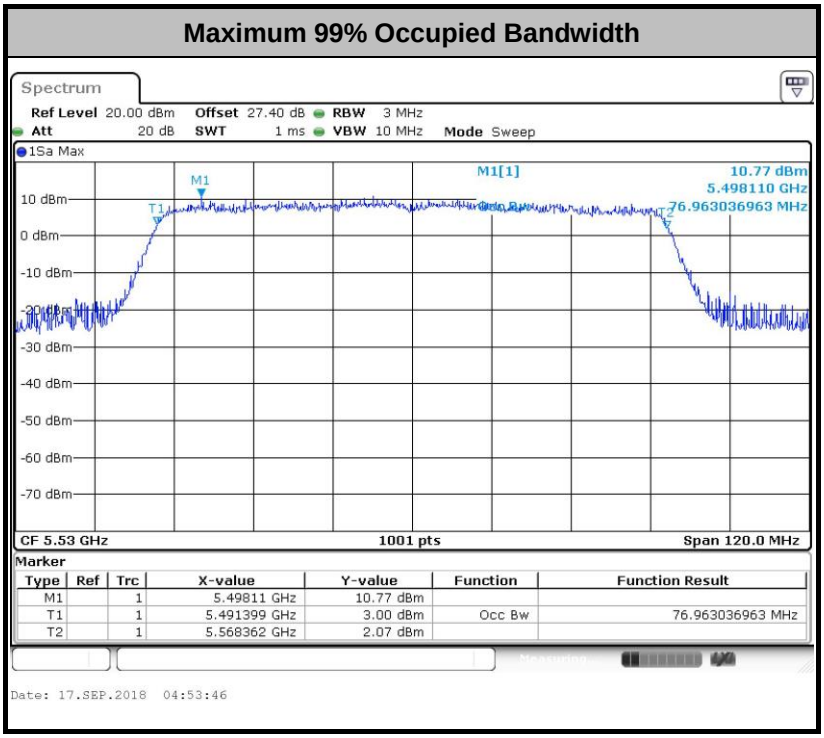
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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

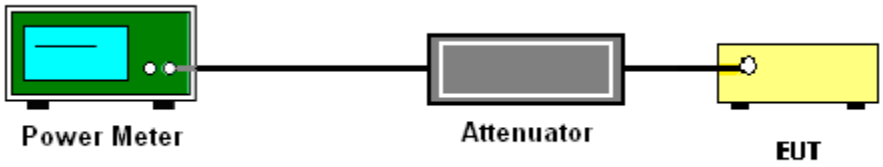
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

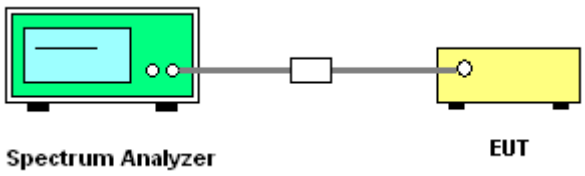
 # Method SA-2 #

(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.

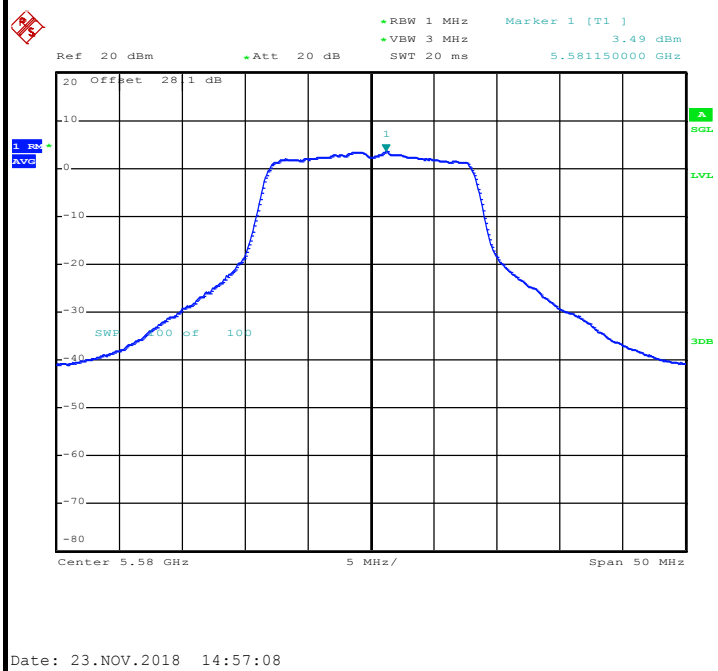
3.3.4 Test Setup



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

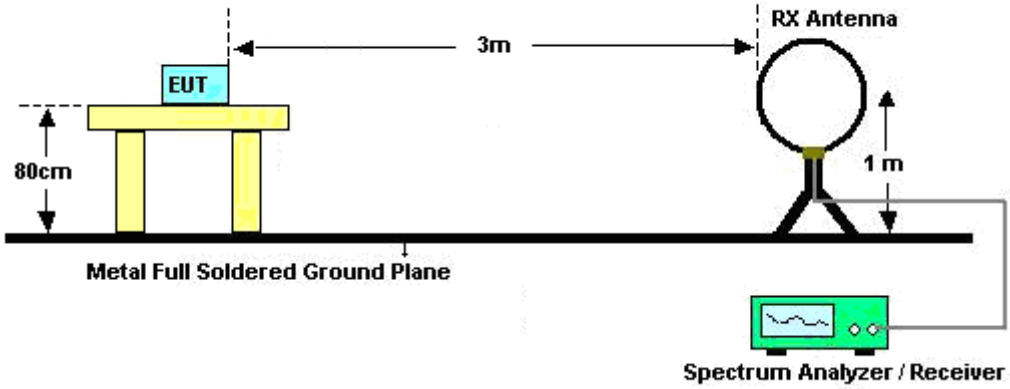
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

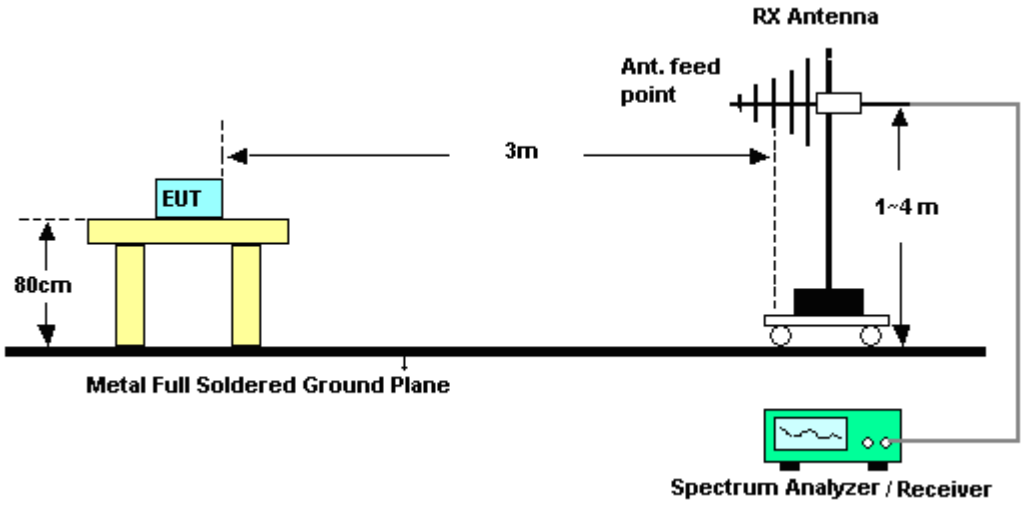
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

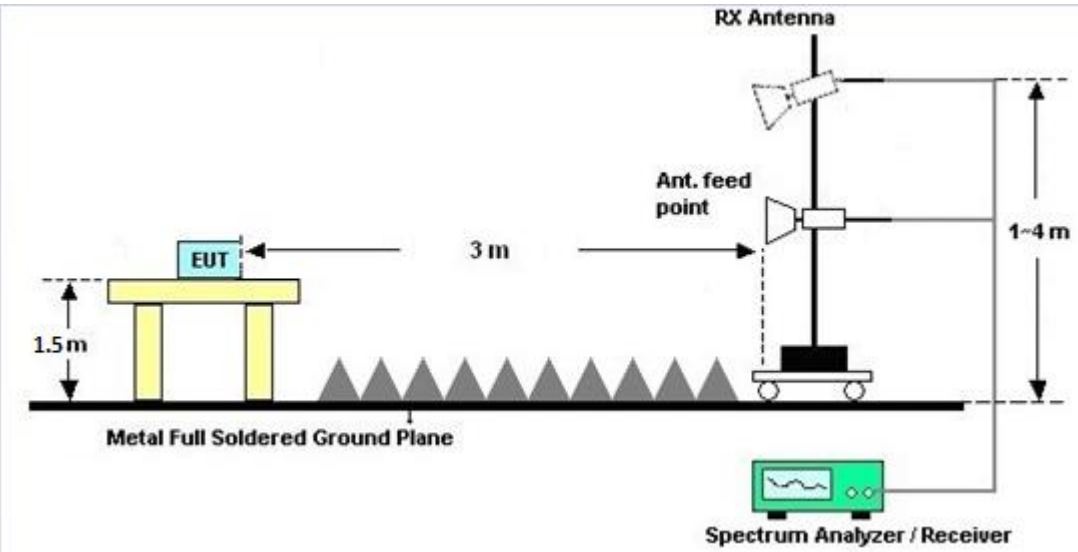
For radiated emissions below 30MHz



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.

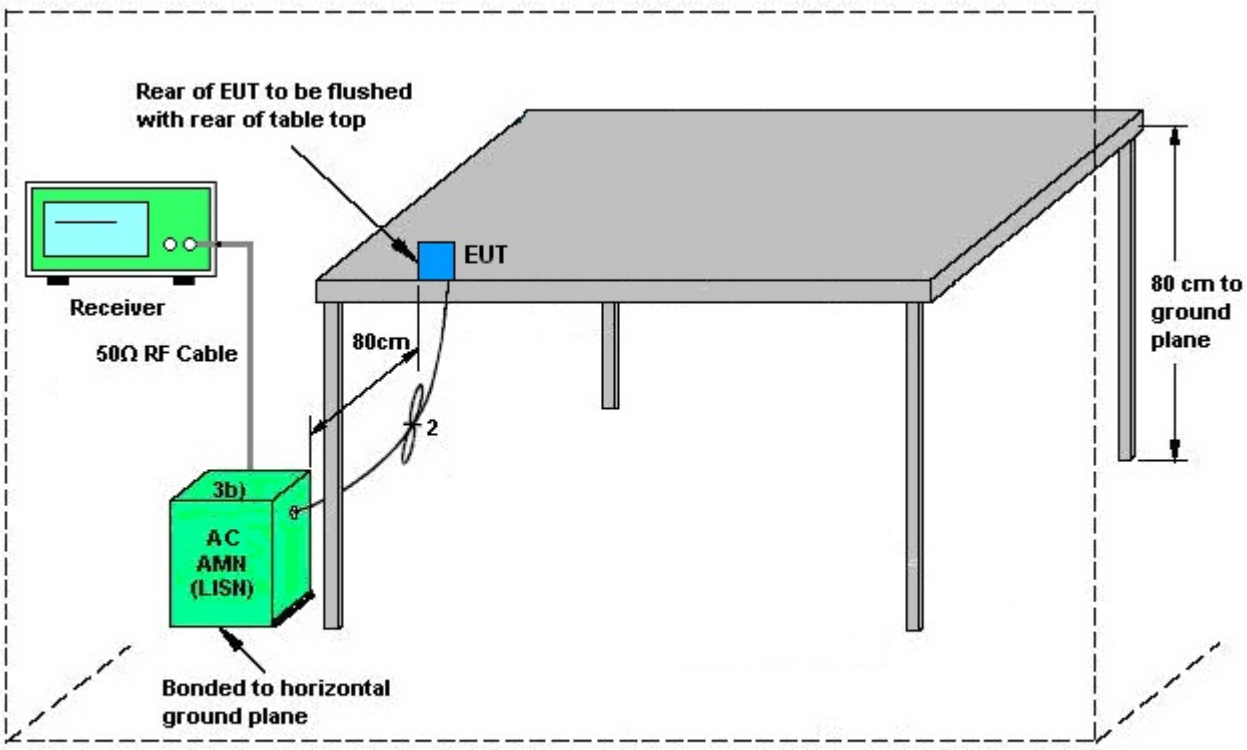
3.5.2 Measuring Instruments

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. 04, 2018~ Nov. 23, 2018	Mar. 05, 2019	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Sep. 04, 2018~ Nov. 23, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Sep. 04, 2018~ Nov. 23, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV30	100895	10Hz~30GHz	Apr. 20, 2018	Sep. 04, 2018~ Nov. 23, 2018	Apr. 19, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 14, 2018	Sep. 04, 2018~ Nov. 23, 2018	Jun. 13, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Sep. 04, 2018~ Nov. 23, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 10, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Sep. 10, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Sep. 10, 2018	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Sep. 10, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 10, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Sep. 10, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Sep. 10, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Nov. 16, 2018~ Nov. 19, 2018	Nov. 22, 2018	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D&0080 0N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Nov. 16, 2018~ Nov. 19, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Horn Antenna	ESCO	3117	00211469	1GHz~18GHz	Aug. 06, 2018	Nov. 16, 2018~ Nov. 19, 2018	Aug. 05, 2019	Radiation (03CH07-HY)
Hygrometer	TECPEL	HTC-2	1	N/A	May 12, 2018	Nov. 16, 2018~ Nov. 19, 2018	May 11, 2019	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 16, 2018	Nov. 16, 2018~ Nov. 19, 2018	Jan. 15, 2019	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Nov. 16, 2018~ Nov. 19, 2018	Apr. 16, 2019	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Nov. 16, 2018~ Nov. 19, 2018	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Nov. 16, 2018~ Nov. 19, 2018	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Nov. 16, 2018~ Nov. 19, 2018	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 16, 2018~ Nov. 19, 2018	N/A	Radiation (03CH07-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. 16, 2018~ Nov. 19, 2018	Jul. 15, 2019	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz ~ 18GHz	Apr. 25, 2018	Nov. 16, 2018~ Nov. 19, 2018	Apr. 24, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Nov. 16, 2018~ Nov. 19, 2018	May 20, 2019	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Nov. 02, 2018	Nov. 16, 2018~ Nov. 19, 2018	Nov. 01, 2019	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	May 08, 2018	Nov. 16, 2018~ Nov. 19, 2018	May 07, 2019	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Nov. 16, 2018~ Nov. 19, 2018	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Jan. 02, 2018	Nov. 16, 2018~ Nov. 19, 2018	Jan. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 27, 2018	Nov. 16, 2018~ Nov. 19, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 27, 2018	Nov. 16, 2018~ Nov. 19, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 27, 2018	Nov. 16, 2018~ Nov. 19, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 21, 2017	Nov. 16, 2018~ Nov. 19, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Nov. 21, 2017	Nov. 16, 2018~ Nov. 19, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Microwave	WHKX7.0/26.5G-6SS	SN4	7G High Pass	Nov. 21, 2017	Nov. 16, 2018~ Nov. 19, 2018	Nov. 20, 2018	Radiation (03CH07-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))	**5.70**

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 / Kai Liao/Shiming Liu	Temperature:	21~25	°C
Test Date:	2018/9/4 ~ 2018/11/23	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	16.80	-	24.70	-	-		22.25	-		
11a	6Mbps	1	44	5220	16.75	-	24.80	-	-		22.24	-		
11a	6Mbps	1	48	5240	16.65	-	24.90	-	-		22.21	-		
HT20	MCS0	1	36	5180	17.88	-	25.07	-	-		22.52	-		
HT20	MCS0	1	44	5220	17.88	-	26.07	-	-		22.52	-		
HT20	MCS0	1	48	5240	17.88	-	26.27	-	-		22.52	-		
HT40	MCS0	1	38	5190	36.56	-	42.08	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.56	-	42.17	-	-		23.01	-		
VHT40	MCS0	1	38	5190	36.76	-	42.08	-	-		23.01	-		
VHT40	MCS0	1	46	5230	36.66	-	42.71	-	-		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	-	14.89	-		24.00	-	-3.50	-		Pass
11a	6Mbps	1	44	5220	0.23	-	14.84	-		24.00	-	-3.50	-		Pass
11a	6Mbps	1	48	5240	0.23	-	14.94	-		24.00	-	-3.50	-		Pass
HT20	MCS0	1	36	5180	0.24	-	13.80	-		24.00	-	-3.50	-		Pass
HT20	MCS0	1	44	5220	0.24	-	13.65	-		24.00	-	-3.50	-		Pass
HT20	MCS0	1	48	5240	0.24	-	13.77	-		24.00	-	-3.50	-		Pass
HT40	MCS0	1	38	5190	0.50	-	12.95	-		24.00	-	-3.50	-		Pass
HT40	MCS0	1	46	5230	0.50	-	12.84	-		24.00	-	-3.50	-		Pass
VHT20	MCS0	1	36	5180	0.22	-	13.76	-		24.00	-	-3.50	-		Pass
VHT20	MCS0	1	44	5220	0.22	-	13.64	-		24.00	-	-3.50	-		Pass
VHT20	MCS0	1	48	5240	0.22	-	13.75	-		24.00	-	-3.50	-		Pass
VHT40	MCS0	1	38	5190	0.45	-	12.90	-		24.00	-	-3.50	-		Pass
VHT40	MCS0	1	46	5230	0.45	-	12.83	-		24.00	-	-3.50	-		Pass
VHT80	MCS0	1	42	5210	0.52	-	11.98	-		24.00	-	-3.50	-		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	-	3.40	-		11.00	-	-3.50	-		Pass
11a	6Mbps	1	44	5220	0.23	-	3.42	-		11.00	-	-3.50	-		Pass
11a	6Mbps	1	48	5240	0.23	-	3.63	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	36	5180	0.24	-	-1.64	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	44	5220	0.24	-	-1.37	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	48	5240	0.24	-	-1.52	-		11.00	-	-3.50	-		Pass
HT40	MCS0	1	38	5190	0.50	-	-5.22	-		11.00	-	-3.50	-		Pass
HT40	MCS0	1	46	5230	0.50	-	-5.18	-		11.00	-	-3.50	-		Pass
VHT40	MCS0	1	38	5190	0.45	-	-4.32	-		11.00	-	-3.50	-		Pass
VHT40	MCS0	1	46	5230	0.45	-	-3.92	-		11.00	-	-3.50	-		Pass
VHT80	MCS0	1	42	5210	0.52	-	-8.03	-		11.00	-	-3.50	-		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	16.70	-	25.10	-	23.23	-	29.23	-	23.98	-	
11a	6Mbps	1	60	5300	16.80	-	25.30	-	23.25	-	29.25	-	23.98	-	
11a	6Mbps	1	64	5320	16.75	-	25.50	-	23.24	-	29.24	-	23.98	-	
HT20	MCS0	1	52	5260	17.98	-	26.02	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	60	5300	17.98	-	25.97	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	64	5320	17.98	-	25.62	-	23.55	-	29.55	-	23.98	-	
HT40	MCS0	1	54	5270	36.46	-	42.17	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.56	-	41.99	-	23.98	-	30.00	-	23.98	-	
VHT40	MCS0	1	54	5270	36.66	-	42.35	-	23.98	-	30.00	-	23.98	-	
VHT40	MCS0	1	62	5310	36.76	-	42.17	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.84	-	84.56	-	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	-	14.56	-		23.98	-	-3.50	-	26.99	Pass
11a	6Mbps	1	60	5300	0.23	-	14.73	-		23.98	-	-3.50	-	26.99	Pass
11a	6Mbps	1	64	5320	0.23	-	14.83	-		23.98	-	-3.50	-	26.99	Pass
HT20	MCS0	1	52	5260	0.24	-	13.85	-		23.98	-	-3.50	-	26.99	Pass
HT20	MCS0	1	60	5300	0.24	-	13.94	-		23.98	-	-3.50	-	26.99	Pass
HT20	MCS0	1	64	5320	0.24	-	13.59	-		23.98	-	-3.50	-	26.99	Pass
HT40	MCS0	1	54	5270	0.50	-	12.99	-		23.98	-	-3.50	-	26.99	Pass
HT40	MCS0	1	62	5310	0.50	-	11.80	-		23.98	-	-3.50	-	26.99	Pass
VHT20	MCS0	1	52	5260	0.22	-	13.80	-		23.98	-	-3.50	-	26.99	Pass
VHT20	MCS0	1	60	5300	0.22	-	13.92	-		23.98	-	-3.50	-	26.99	Pass
VHT20	MCS0	1	64	5320	0.22	-	13.56	-		23.98	-	-3.50	-	26.99	Pass
VHT40	MCS0	1	54	5270	0.45	-	12.98	-		23.98	-	-3.50	-	26.99	Pass
VHT40	MCS0	1	62	5310	0.45	-	11.81	-		23.98	-	-3.50	-	26.99	Pass
VHT80	MCS0	1	58	5290	0.52	-	10.77	-		23.98	-	-3.50	-	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	-	3.30	-		11.00	-	-3.50	-		Pass
11a	6Mbps	1	60	5300	0.23	-	3.20	-		11.00	-	-3.50	-		Pass
11a	6Mbps	1	64	5320	0.23	-	3.29	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	52	5260	0.24	-	-1.40	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	60	5300	0.24	-	-1.52	-		11.00	-	-3.50	-		Pass
HT20	MCS0	1	64	5320	0.24	-	-0.74	-		11.00	-	-3.50	-		Pass
HT40	MCS0	1	54	5270	0.50	-	-4.97	-		11.00	-	-3.50	-		Pass
HT40	MCS0	1	62	5310	0.50	-	-5.11	-		11.00	-	-3.50	-		Pass
VHT40	MCS0	1	54	5270	0.45	-	-4.11	-		11.00	-	-3.50	-		Pass
VHT40	MCS0	1	62	5310	0.45	-	-4.26	-		11.00	-	-3.50	-		Pass
VHT80	MCS0	1	58	5290	0.52	-	-8.24	-		11.00	-	-3.50	-		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	16.75	-	25.20	-	23.24	-	29.24	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.80	-	25.20	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.85	-	25.40	-	23.27	-	29.27	-	23.98	-	----	----
11a	6Mbps	1	144	5720	13.40	-	17.10	-	22.27	-	28.27	-	23.33	-	2.75	-
HT20	MCS0	1	100	5500	17.93	-	25.47	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.03	-	26.07	-	23.56	-	29.56	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.98	-	25.47	-	23.55	-	29.55	-	23.98	-	----	----
HT20	MCS0	1	144	5720	13.99	-	17.54	-	22.46	-	28.46	-	23.44	-	2.59	-
HT40	MCS0	1	102	5510	36.56	-	42.53	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.76	-	42.53	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.56	-	42.26	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	142	5710	33.28	-	36.31	-	23.98	-	30.00	-	23.98	-	2.98	-
VHT40	MCS0	1	102	5510	36.86	-	42.62	-	23.98	-	30.00	-	23.98	-	----	----
VHT40	MCS0	1	110	5550	36.86	-	42.71	-	23.98	-	30.00	-	23.98	-	----	----
VHT40	MCS0	1	134	5670	36.76	-	43.43	-	23.98	-	30.00	-	23.98	-	----	----
VHT40	MCS0	1	142	5710	33.38	-	36.22	-	23.98	-	30.00	-	23.98	-	2.58	-
VHT80	MCS0	1	106	5530	76.96	-	84.88	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.96	-	84.88	-	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	-	14.80	-		23.98	-	-2.10	-	26.99	Pass
11a	6Mbps	1	116	5580	0.23	-	14.76	-		23.98	-	-2.10	-	26.99	Pass
11a	6Mbps	1	140	5700	0.23	-	14.91	-		23.98	-	-2.10	-	26.99	Pass
11a	6Mbps	1	144	5720	0.23	-	14.88	-		23.33	-	-2.10	-	26.99	Pass
HT20	MCS0	1	100	5500	0.24	-	13.90	-		23.98	-	-2.10	-	26.99	Pass
HT20	MCS0	1	116	5580	0.24	-	13.93	-		23.98	-	-2.10	-	26.99	Pass
HT20	MCS0	1	140	5700	0.24	-	13.69	-		23.98	-	-2.10	-	26.99	Pass
HT20	MCS0	1	144	5720	0.24	-	13.77	-		23.44	-	-2.10	-	26.99	Pass
HT40	MCS0	1	102	5510	0.50	-	12.98	-		23.98	-	-2.10	-	26.99	Pass
HT40	MCS0	1	110	5550	0.50	-	12.91	-		23.98	-	-2.10	-	26.99	Pass
HT40	MCS0	1	134	5670	0.50	-	12.93	-		23.98	-	-2.10	-	26.99	Pass
HT40	MCS0	1	142	5710	0.50	-	12.77	-		23.98	-	-2.10	-	26.99	Pass
VHT20	MCS0	1	100	5500	0.22	-	13.88	-		23.98	-	-2.10	-	26.99	Pass
VHT20	MCS0	1	116	5580	0.22	-	13.92	-		23.98	-	-2.10	-	26.99	Pass
VHT20	MCS0	1	140	5700	0.22	-	13.68	-		23.98	-	-2.10	-	26.99	Pass
VHT20	MCS0	1	144	5720	0.22	-	13.75	-		23.98	-	-2.10	-	26.99	Pass
VHT40	MCS0	1	102	5510	0.45	-	12.95	-		23.98	-	-2.10	-	26.99	Pass
VHT40	MCS0	1	110	5550	0.45	-	12.90	-		23.98	-	-2.10	-	26.99	Pass
VHT40	MCS0	1	134	5670	0.45	-	12.91	-		23.98	-	-2.10	-	26.99	Pass
VHT40	MCS0	1	142	5710	0.45	-	12.75	-		23.98	-	-2.10	-	26.99	Pass
VHT80	MCS0	1	106	5530	0.52	-	11.96	-		23.98	-	-2.10	-	26.99	Pass
VHT80	MCS0	1	122	5610	0.52	-	11.93	-		23.98	-	-2.10	-	26.99	Pass
VHT80	MCS0	1	138	5690	0.52	-	11.75	-		23.98	-	-2.10	-	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	-	3.57	-		11.00	-	-2.10	-		Pass
11a	6Mbps	1	116	5580	0.23	-	3.72	-		11.00	-	-2.10	-		Pass
11a	6Mbps	1	140	5700	0.23	-	3.20	-		11.00	-	-2.10	-		Pass
11a	6Mbps	1	144	5720	0.23	-	3.30	-		11.00	-	-2.10	-		Pass
HT20	MCS0	1	100	5500	0.24	-	-1.43	-		11.00	-	-2.10	-		Pass
HT20	MCS0	1	116	5580	0.24	-	-1.21	-		11.00	-	-2.10	-		Pass
HT20	MCS0	1	140	5700	0.24	-	-1.58	-		11.00	-	-2.10	-		Pass
HT20	MCS0	1	144	5720	0.24	-	-1.34	-		11.00	-	-2.10	-		Pass
HT40	MCS0	1	102	5510	0.50	-	-4.59	-		11.00	-	-2.10	-		Pass
HT40	MCS0	1	110	5550	0.50	-	-5.18	-		11.00	-	-2.10	-		Pass
HT40	MCS0	1	134	5670	0.50	-	-5.46	-		11.00	-	-2.10	-		Pass
HT40	MCS0	1	142	5710	0.50	-	-5.23	-		11.00	-	-2.10	-		Pass
VHT40	MCS0	1	102	5510	0.45	-	-3.92	-		11.00	-	-2.10	-		Pass
VHT40	MCS0	1	110	5550	0.45	-	-4.45	-		11.00	-	-2.10	-		Pass
VHT40	MCS0	1	134	5670	0.45	-	-4.00	-		11.00	-	-2.10	-		Pass
VHT40	MCS0	1	142	5710	0.45	-	-4.14	-		11.00	-	-2.10	-		Pass
VHT80	MCS0	1	106	5530	0.52	-	-8.71	-		11.00	-	-2.10	-		Pass
VHT80	MCS0	1	122	5610	0.52	-	-8.41	-		11.00	-	-2.10	-		Pass
VHT80	MCS0	1	138	5690	0.52	-	-8.07	-		11.00	-	-2.10	-		Pass

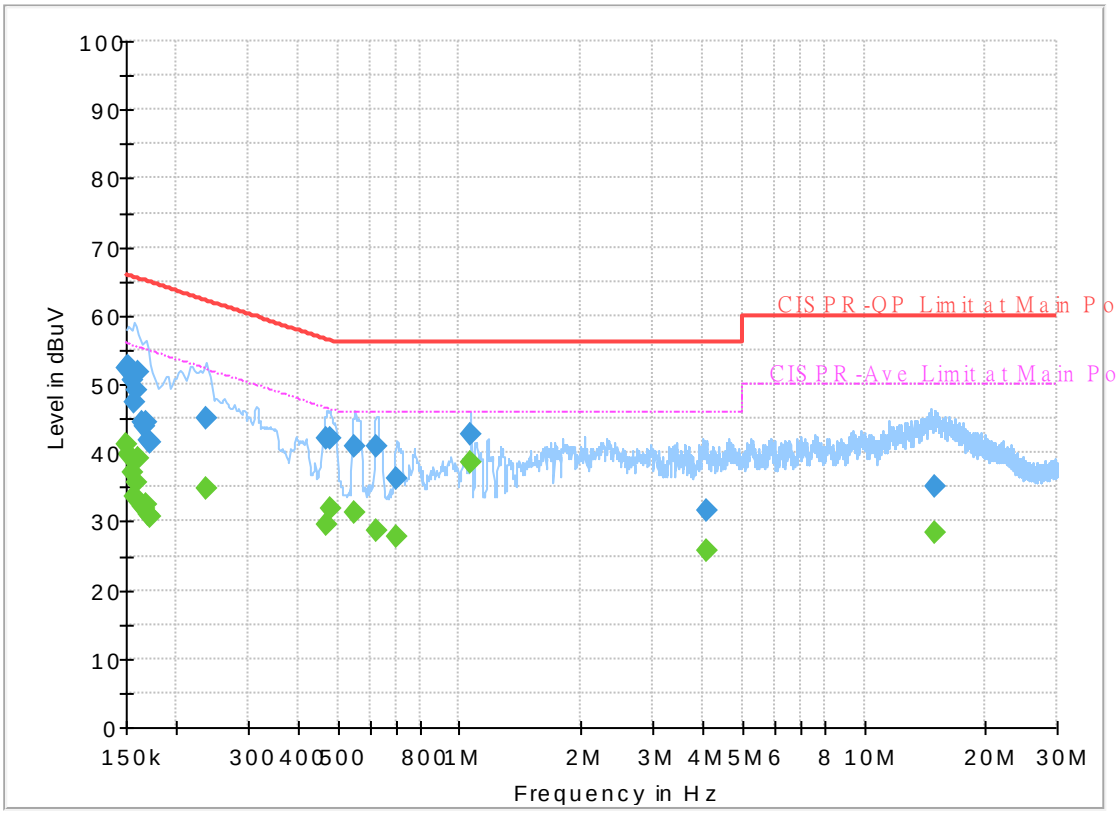
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	22~23℃
		Relative Humidity :	58~60%

EUT Information

Report NO :	881333-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

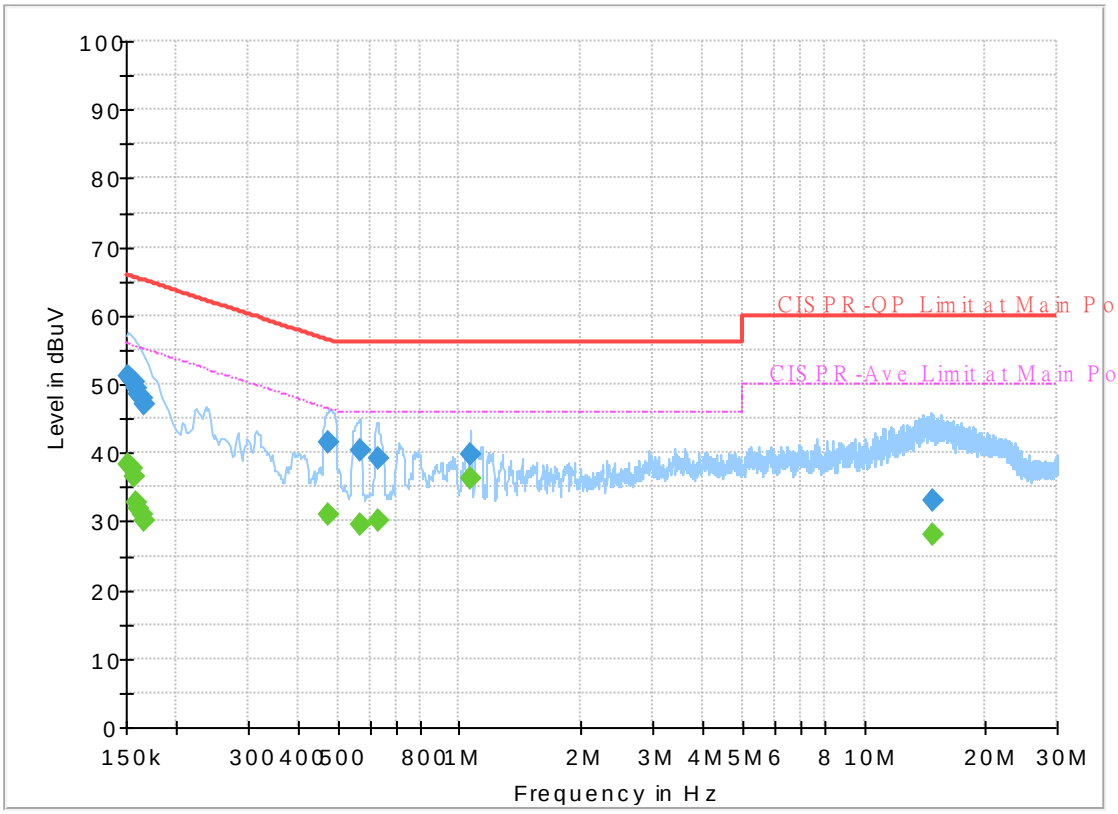
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	41.19	56.00	14.81	L1	OFF	19.5
0.150000	52.45	---	66.00	13.55	L1	OFF	19.5
0.152250	---	39.65	55.88	16.23	L1	OFF	19.5
0.152250	52.70	---	65.88	13.18	L1	OFF	19.5
0.154500	---	37.21	55.75	18.54	L1	OFF	19.5
0.154500	50.65	---	65.75	15.10	L1	OFF	19.5
0.156750	---	33.69	55.63	21.94	L1	OFF	19.5
0.156750	47.46	---	65.63	18.17	L1	OFF	19.5
0.159000	---	35.53	55.52	19.99	L1	OFF	19.5
0.159000	49.08	---	65.52	16.44	L1	OFF	19.5
0.161250	---	39.09	55.40	16.31	L1	OFF	19.5
0.161250	51.79	---	65.40	13.61	L1	OFF	19.5
0.163500	---	32.30	55.28	22.98	L1	OFF	19.5
0.163500	44.35	---	65.28	20.93	L1	OFF	19.5
0.165750	---	31.96	55.17	23.21	L1	OFF	19.5
0.165750	43.77	---	65.17	21.40	L1	OFF	19.5
0.168000	---	32.58	55.06	22.48	L1	OFF	19.5
0.168000	44.40	---	65.06	20.66	L1	OFF	19.5
0.170250	---	31.08	54.95	23.87	L1	OFF	19.5
0.170250	41.93	---	64.95	23.02	L1	OFF	19.5
0.172500	---	30.84	54.84	24.00	L1	OFF	19.5

0.172500	41.54	---	64.84	23.30	L1	OFF	19.5
0.237750	---	34.71	52.17	17.46	L1	OFF	19.5
0.237750	44.95	---	62.17	17.22	L1	OFF	19.5
0.469500	---	29.48	46.52	17.04	L1	OFF	19.5
0.469500	41.98	---	56.52	14.54	L1	OFF	19.5
0.478500	---	31.76	46.37	14.61	L1	OFF	19.5
0.478500	42.02	---	56.37	14.35	L1	OFF	19.5
0.552750	---	31.39	46.00	14.61	L1	OFF	19.5
0.552750	40.99	---	56.00	15.01	L1	OFF	19.5
0.620250	---	28.64	46.00	17.36	L1	OFF	19.6
0.620250	40.91	---	56.00	15.09	L1	OFF	19.6
0.701250	---	27.73	46.00	18.27	L1	OFF	19.6
0.701250	36.15	---	56.00	19.85	L1	OFF	19.6
1.065750	---	38.53	46.00	7.47	L1	OFF	19.6
1.065750	42.70	---	56.00	13.30	L1	OFF	19.6
4.074000	---	25.66	46.00	20.34	L1	OFF	19.7
4.074000	31.72	---	56.00	24.28	L1	OFF	19.7
15.022500	---	28.41	50.00	21.59	L1	OFF	20.1
15.022500	35.01	---	60.00	24.99	L1	OFF	20.1

EUT Information

Report NO :	881333-01
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	---	38.18	55.88	17.70	N	OFF	19.5
0.152250	51.30	---	65.88	14.58	N	OFF	19.5
0.154500	---	37.71	55.75	18.04	N	OFF	19.5
0.154500	50.69	---	65.75	15.06	N	OFF	19.5
0.156750	---	36.68	55.63	18.95	N	OFF	19.5
0.156750	50.18	---	65.63	15.45	N	OFF	19.5
0.159000	---	32.75	55.52	22.77	N	OFF	19.5
0.159000	49.37	---	65.52	16.15	N	OFF	19.5
0.161250	---	32.00	55.40	23.40	N	OFF	19.5
0.161250	48.66	---	65.40	16.74	N	OFF	19.5
0.163500	---	31.01	55.28	24.27	N	OFF	19.5
0.163500	47.93	---	65.28	17.35	N	OFF	19.5
0.165750	---	30.26	55.17	24.91	N	OFF	19.5
0.165750	47.05	---	65.17	18.12	N	OFF	19.5
0.474000	---	30.87	46.44	15.57	N	OFF	19.5
0.474000	41.49	---	56.44	14.95	N	OFF	19.5
0.566250	---	29.44	46.00	16.56	N	OFF	19.5
0.566250	40.44	---	56.00	15.56	N	OFF	19.5
0.629250	---	29.98	46.00	16.02	N	OFF	19.6
0.629250	39.05	---	56.00	16.95	N	OFF	19.6
1.065750	---	36.40	46.00	9.60	N	OFF	19.6

1.065750	**39.68**	**---**	**56.00**	**16.32**	**N**	**OFF**	**19.6**
14.804250	**---**	**28.17**	**50.00**	**21.83**	**N**	**OFF**	**20.1**
14.804250	**33.12**	**---**	**60.00**	**26.88**	**N**	**OFF**	**20.1**

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, Nick Yu, and Troye Hsieh	Temperature :	24~26°C
		Relative Humidity :	54~56%

Band 1 - 5150~5250MHz

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 36 5180MHz		5138.58	55.29	-18.71	74	45.21	34.17	10.96	35.05	368	224	P	H
		5149.76	43.51	-10.49	54	33.33	34.2	11.03	35.05	368	224	A	H
	*	5180	106.31	-	-	96.2	34.13	11.03	35.05	368	224	P	H
	*	5180	98.83	-	-	88.72	34.13	11.03	35.05	368	224	A	H
													H
													H
		5143.78	52.31	-21.69	74	42.13	34.2	11.03	35.05	396	169	P	V
		5149.24	41.56	-12.44	54	31.38	34.2	11.03	35.05	396	169	A	V
	*	5180	104.75	-	-	94.64	34.13	11.03	35.05	396	169	P	V
	*	5180	96.94	-	-	86.83	34.13	11.03	35.05	396	169	A	V
													V
													V
802.11a CH 44 5220MHz		5135.72	48.71	-25.29	74	38.63	34.17	10.96	35.05	342	224	P	H
		5131.3	39.54	-14.46	54	29.46	34.17	10.96	35.05	342	224	A	H
	*	5220	107.1	-	-	96.92	34.13	11.1	35.05	342	224	P	H
	*	5220	99.3	-	-	89.12	34.13	11.1	35.05	342	224	A	H
		5407.64	48.28	-25.72	74	37.79	34.4	11.15	35.06	342	224	P	H
		5454.68	39.53	-14.47	54	28.99	34.4	11.2	35.06	342	224	A	H
		5020.28	49.61	-24.39	74	39.75	34.07	10.83	35.04	395	162	P	V
		5144.56	39.82	-14.18	54	29.64	34.2	11.03	35.05	395	162	A	V
	*	5220	105	-	-	94.82	34.13	11.1	35.05	395	162	P	V
	*	5220	97.05	-	-	86.87	34.13	11.1	35.05	395	162	A	V
		5445.44	48.91	-25.09	74	38.37	34.4	11.2	35.06	395	162	P	V
		5451.04	39.59	-14.41	54	29.05	34.4	11.2	35.06	395	162	A	V

802.11a CH 48 5240MHz		5109.46	48.58	-25.42	74	38.53	34.13	10.96	35.04	319	226	P	H
		5148.46	39.46	-14.54	54	29.28	34.2	11.03	35.05	319	226	A	H
	*	5240	106.69	-	-	96.46	34.17	11.11	35.05	319	226	P	H
	*	5240	99.07	-	-	88.84	34.17	11.11	35.05	319	226	A	H
		5430.88	48.41	-25.59	74	37.87	34.4	11.2	35.06	319	226	P	H
		5415.2	39.51	-14.49	54	29.02	34.4	11.15	35.06	319	226	A	H
		5068.38	48.82	-25.18	74	38.93	34.03	10.9	35.04	391	161	P	V
		5136.5	39.5	-14.5	54	29.42	34.17	10.96	35.05	391	161	A	V
	*	5240	104.64	-	-	94.41	34.17	11.11	35.05	391	161	P	V
	*	5240	97.1	-	-	86.87	34.17	11.11	35.05	391	161	A	V
		5449.36	47.84	-26.16	74	37.3	34.4	11.2	35.06	391	161	P	V
		5410.16	39.64	-14.36	54	29.15	34.4	11.15	35.06	391	161	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	48.56	-19.64	68.2	53.66	37.23	17	59.33	100	0	P	H
		15540	49.77	-24.23	74	46.01	39.83	20.52	56.59	100	0	P	H
													H
													H
		10360	49.98	-18.22	68.2	55.08	37.23	17	59.33	100	0	P	V
		15540	49.27	-24.73	74	45.51	39.83	20.52	56.59	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	49.54	-18.66	68.2	54.38	37.33	17.1	59.27	100	0	P	H
		15660	50.49	-23.51	74	46.64	39.85	20.57	56.57	100	0	P	H
													H
													H
		10440	50.62	-17.58	68.2	55.46	37.33	17.1	59.27	100	0	P	V
		15660	49.18	-24.82	74	45.33	39.85	20.57	56.57	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	48.03	-20.17	68.2	52.72	37.38	17.15	59.22	100	0	P	H
		15720	49.07	-24.93	74	45.17	39.85	20.61	56.56	100	0	P	H
													H
													H
		10480	49.25	-18.95	68.2	53.94	37.38	17.15	59.22	100	0	P	V
		15720	49.08	-24.92	74	45.18	39.85	20.61	56.56	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)
		5145.34	49.84	-24.16	74	39.66	34.2	11.03	35.05	352	195	P	H
		5149.24	40.52	-13.48	54	30.34	34.2	11.03	35.05	352	195	A	H
	*	5180	102.88	-	-	92.77	34.13	11.03	35.05	352	195	P	H
	*	5180	95.14	-	-	85.03	34.13	11.03	35.05	352	195	A	H
802.11n													H
HT20													H
CH 36		5100.88	49.26	-24.74	74	39.24	34.1	10.96	35.04	399	174	P	V
5180MHz		5147.94	40.21	-13.79	54	30.03	34.2	11.03	35.05	399	174	A	V
	*	5180	101.5	-	-	91.39	34.13	11.03	35.05	399	174	P	V
	*	5180	93.61	-	-	83.5	34.13	11.03	35.05	399	174	A	V
													V
													V
		5146.38	48.81	-25.19	74	38.63	34.2	11.03	35.05	380	232	P	H
		5126.62	39.68	-14.32	54	29.6	34.17	10.96	35.05	380	232	A	H
	*	5220	103.87	-	-	93.69	34.13	11.1	35.05	380	232	P	H
	*	5220	95.78	-	-	85.6	34.13	11.1	35.05	380	232	A	H
802.11n		5385.24	48.99	-25.01	74	38.5	34.4	11.15	35.06	380	232	P	H
HT20		5415.48	39.61	-14.39	54	29.12	34.4	11.15	35.06	380	232	A	H
CH 44		5045.24	49.74	-24.26	74	39.95	34	10.83	35.04	400	131	P	V
5220MHz		5142.48	39.48	-14.52	54	29.3	34.2	11.03	35.05	400	131	A	V
	*	5220	100.26	-	-	90.08	34.13	11.1	35.05	400	131	P	V
	*	5220	92.41	-	-	82.23	34.13	11.1	35.05	400	131	A	V
		5432	48.98	-25.02	74	38.44	34.4	11.2	35.06	400	131	P	V
		5453	39.68	-14.32	54	29.14	34.4	11.2	35.06	400	131	A	V

		5088.66	49.08	-24.92	74	39.12	34.1	10.9	35.04	378	232	P	H
		5124.8	39.79	-14.21	54	29.71	34.17	10.96	35.05	378	232	A	H
	*	5240	104.33	-	-	94.1	34.17	11.11	35.05	378	232	P	H
	*	5240	96.13	-	-	85.9	34.17	11.11	35.05	378	232	A	H
802.11n		5377.68	48.97	-25.03	74	38.49	34.4	11.14	35.06	378	232	P	H
HT20		5428.92	39.67	-14.33	54	29.13	34.4	11.2	35.06	378	232	A	H
CH 48		5119.86	49.32	-24.68	74	39.28	34.13	10.96	35.05	394	153	P	V
5240MHz		5137.8	39.69	-14.31	54	29.61	34.17	10.96	35.05	394	153	A	V
	*	5240	101.5	-	-	91.27	34.17	11.11	35.05	394	153	P	V
	*	5240	93.68	-	-	83.45	34.17	11.11	35.05	394	153	A	V
		5446.84	49.89	-24.11	74	39.35	34.4	11.2	35.06	394	153	P	V
		5437.88	39.65	-14.35	54	29.11	34.4	11.2	35.06	394	153	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	45.94	-22.26	68.2	51.04	37.23	17	59.33	100	0	P	H
		15540	48.94	-25.06	74	45.18	39.83	20.52	56.59	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	48.5	-19.7	68.2	53.6	37.23	17	59.33	100	0	P	V
5180MHz		15540	49.23	-24.77	74	45.47	39.83	20.52	56.59	100	0	P	V
													V
													V
		10440	46.99	-21.21	68.2	51.83	37.33	17.1	59.27	100	0	P	H
		15660	49.57	-24.43	74	45.72	39.85	20.57	56.57	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	48.75	-19.45	68.2	53.59	37.33	17.1	59.27	100	0	P	V
5220MHz		15660	49.97	-24.03	74	46.12	39.85	20.57	56.57	100	0	P	V
													V
													V
		10480	46.12	-22.08	68.2	50.81	37.38	17.15	59.22	100	0	P	H
		15720	48.89	-25.11	74	44.99	39.85	20.61	56.56	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	47.97	-20.23	68.2	52.66	37.38	17.15	59.22	100	0	P	V
5240MHz		15720	49.56	-24.44	74	45.66	39.85	20.61	56.56	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 VHT40 (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)
		5119.08	51.3	-22.7	74	41.26	34.13	10.96	35.05	100	233	P	H
		5149.5	43.13	-10.87	54	32.95	34.2	11.03	35.05	100	233	A	H
	*	5190	101.5	-	-	91.32	34.13	11.1	35.05	100	233	P	H
	*	5190	93.84	-	-	83.66	34.13	11.1	35.05	100	233	A	H
802.11ac		5440.4	49.13	-24.87	74	38.59	34.4	11.2	35.06	100	233	P	H
VHT40		5407.36	40.38	-13.62	54	29.89	34.4	11.15	35.06	100	233	A	H
CH 38		5142.22	49.21	-24.79	74	39.03	34.2	11.03	35.05	397	169	P	V
5190MHz		5149.76	41.16	-12.84	54	30.98	34.2	11.03	35.05	397	169	A	V
	*	5190	100.27	-	-	90.09	34.13	11.1	35.05	397	169	P	V
	*	5190	92.47	-	-	82.29	34.13	11.1	35.05	397	169	A	V
		5424.44	49.59	-24.41	74	39.05	34.4	11.2	35.06	397	169	P	V
		5404.84	40.61	-13.39	54	30.12	34.4	11.15	35.06	397	169	A	V
		5148.46	49.5	-24.5	74	39.32	34.2	11.03	35.05	100	236	P	H
		5149.76	41.67	-12.33	54	31.49	34.2	11.03	35.05	100	236	A	H
	*	5230	102.07	-	-	91.84	34.17	11.11	35.05	100	236	P	H
	*	5230	94.11	-	-	83.88	34.17	11.11	35.05	100	236	A	H
802.11ac		5445.16	49.26	-24.74	74	38.72	34.4	11.2	35.06	100	236	P	H
VHT40		5457.2	40.52	-13.48	54	29.98	34.4	11.2	35.06	100	236	A	H
CH 46		5111.28	48.85	-25.15	74	38.8	34.13	10.96	35.04	394	149	P	V
5230MHz		5121.42	40.38	-13.62	54	30.34	34.13	10.96	35.05	394	149	A	V
	*	5230	98.47	-	-	88.24	34.17	11.11	35.05	394	149	P	V
	*	5230	90.73	-	-	80.5	34.17	11.11	35.05	394	149	A	V
		5417.72	49.43	-24.57	74	38.94	34.4	11.15	35.06	394	149	P	V
		5428.64	40.58	-13.42	54	30.04	34.4	11.2	35.06	394	149	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 VHT40 (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	47.45	-20.75	68.2	52.5	37.27	17	59.32	100	0	P	H
		15570	49.02	-24.98	74	45.2	39.87	20.54	56.59	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	47.81	-20.39	68.2	52.86	37.27	17	59.32	100	0	P	V
5190MHz		15570	49.03	-24.97	74	45.21	39.87	20.54	56.59	100	0	P	V
													V
													V
		10460	45.87	-22.33	68.2	50.67	37.35	17.1	59.25	100	0	P	H
		15690	50.42	-23.58	74	46.57	39.82	20.59	56.56	100	0	P	H
802.11ac													H
VHT40													H
CH 46		10460	45.98	-22.22	68.2	50.78	37.35	17.1	59.25	100	0	P	V
5230MHz		15690	49.72	-24.28	74	45.87	39.82	20.59	56.56	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)
		5148.72	57.94	-16.06	74	47.76	34.2	11.03	35.05	100	237	P	H
		5150	45.19	-8.81	54	35.01	34.2	11.03	35.05	100	237	A	H
	*	5210	97.23	-	-	87.05	34.13	11.1	35.05	100	237	P	H
	*	5210	89.61	-	-	79.43	34.13	11.1	35.05	100	237	A	H
802.11ac		5459.44	49.34	-24.66	74	38.8	34.4	11.2	35.06	100	237	P	H
VHT80		5423.88	40.35	-13.65	54	29.81	34.4	11.2	35.06	100	237	A	H
CH 42		5139.88	51.01	-22.99	74	40.9	34.2	10.96	35.05	394	170	P	V
5210MHz		5139.88	40.66	-13.34	54	30.55	34.2	10.96	35.05	394	170	A	V
	*	5210	95.87	-	-	85.69	34.13	11.1	35.05	394	170	P	V
	*	5210	88.27	-	-	78.09	34.13	11.1	35.05	394	170	A	V
		5364.8	48.29	-25.71	74	37.8	34.4	11.14	35.05	394	170	P	V
		5438.44	40.53	-13.47	54	29.99	34.4	11.2	35.06	394	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac 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	47	-21.2	68.2	51.91	37.32	17.05	59.28	100	0	P	H
		15630	49.53	-24.47	74	45.66	39.87	20.57	56.57	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	46.71	-21.49	68.2	51.62	37.32	17.05	59.28	100	0	P	V
5210MHz		15630	49.36	-24.64	74	45.49	39.87	20.57	56.57	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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		5146.3	48.46	-25.54	74	38.28	34.2	11.03	35.05	335	224	P	H
		5145.95	39.48	-14.52	54	29.3	34.2	11.03	35.05	335	224	A	H
	*	5260	107.32	-	-	97.03	34.23	11.11	35.05	335	224	P	H
	*	5260	100	-	-	89.71	34.23	11.11	35.05	335	224	A	H
		5398.8	48.43	-25.57	74	37.94	34.4	11.15	35.06	335	224	P	H
		5451.84	39.57	-14.43	54	29.03	34.4	11.2	35.06	335	224	A	H
		5010.85	48.37	-25.63	74	38.58	34.07	10.76	35.04	388	161	P	V
		5139.3	39.52	-14.48	54	29.44	34.17	10.96	35.05	388	161	A	V
	*	5260	104.51	-	-	94.22	34.23	11.11	35.05	388	161	P	V
	*	5260	97.05	-	-	86.76	34.23	11.11	35.05	388	161	A	V
		5393.52	48.21	-25.79	74	37.72	34.4	11.15	35.06	388	161	P	V
		5453.76	39.51	-14.49	54	28.97	34.4	11.2	35.06	388	161	A	V
802.11a CH 60 5300MHz		5135.45	48.42	-25.58	74	38.34	34.17	10.96	35.05	349	223	P	H
		5143.85	39.47	-14.53	54	29.29	34.2	11.03	35.05	349	223	A	H
	*	5300	107.49	-	-	97.12	34.3	11.12	35.05	349	223	P	H
	*	5300	99.79	-	-	89.42	34.3	11.12	35.05	349	223	A	H
		5351.04	53.93	-20.07	74	43.44	34.4	11.14	35.05	349	223	P	H
		5350.32	40.14	-13.86	54	29.65	34.4	11.14	35.05	349	223	A	H
		5069.65	49.59	-24.41	74	39.7	34.03	10.9	35.04	400	154	P	V
		5123.2	39.39	-14.61	54	29.31	34.17	10.96	35.05	400	154	A	V
	*	5300	103.62	-	-	93.25	34.3	11.12	35.05	400	154	P	V
	*	5300	96.21	-	-	85.84	34.3	11.12	35.05	400	154	A	V
		5391.36	49.05	-24.95	74	38.56	34.4	11.15	35.06	400	154	P	V
		5421.6	39.53	-14.47	54	28.99	34.4	11.2	35.06	400	154	A	V

802.11a CH 64 5320MHz	*	5320	106.71	-	-	96.3	34.33	11.13	35.05	368	223	P	H
	*	5320	99.59	-	-	89.18	34.33	11.13	35.05	368	223	A	H
		5350.08	55.08	-18.92	74	44.59	34.4	11.14	35.05	368	223	P	H
		5350.08	45.54	-8.46	54	35.05	34.4	11.14	35.05	368	223	A	H
													H
													H
	*	5320	105.09	-	-	94.68	34.33	11.13	35.05	398	165	P	V
	*	5320	97.67	-	-	87.26	34.33	11.13	35.05	398	165	A	V
		5350.56	54.73	-19.27	74	44.24	34.4	11.14	35.05	398	165	P	V
		5350.08	44.09	-9.91	54	33.6	34.4	11.14	35.05	398	165	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	49.39	-18.81	68.2	53.94	37.43	17.2	59.18	100	0	P	H
		15780	49.62	-24.38	74	45.54	40	20.62	56.54	100	0	P	H
													H
													H
		10520	48.81	-19.39	68.2	53.36	37.43	17.2	59.18	100	0	P	V
		15780	50.14	-23.86	74	46.06	40	20.62	56.54	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	48.05	-25.95	74	52.2	37.6	17.31	59.06	100	0	P	H
		15900	49.39	-24.61	74	44.83	40.4	20.68	56.52	100	0	P	H
													H
													H
		10600	47.87	-26.13	74	52.02	37.6	17.31	59.06	100	0	P	V
		15900	49.63	-24.37	74	45.07	40.4	20.68	56.52	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	47.41	-26.59	74	51.46	37.6	17.36	59.01	100	0	P	H
		15960	49.01	-24.99	74	44.48	40.33	20.71	56.51	100	0	P	H
													H
													H
		10640	47.51	-26.49	74	51.56	37.6	17.36	59.01	100	0	P	V
		15960	49.18	-24.82	74	44.65	40.33	20.71	56.51	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)
		5054.6	48.57	-25.43	74	38.75	34.03	10.83	35.04	399	231	P	H
		5145.25	39.6	-14.4	54	29.42	34.2	11.03	35.05	399	231	A	H
	*	5260	103.91	-	-	93.62	34.23	11.11	35.05	399	231	P	H
	*	5260	96.27	-	-	85.98	34.23	11.11	35.05	399	231	A	H
802.11n		5457.6	49.74	-24.26	74	39.2	34.4	11.2	35.06	399	231	P	H
HT20		5401.44	39.82	-14.18	54	29.33	34.4	11.15	35.06	399	231	A	H
CH 52		5056	48.49	-25.51	74	38.67	34.03	10.83	35.04	384	180	P	V
5260MHz		5141.75	39.62	-14.38	54	29.44	34.2	11.03	35.05	384	180	A	V
	*	5260	101.92	-	-	91.63	34.23	11.11	35.05	384	180	P	V
	*	5260	93.73	-	-	83.44	34.23	11.11	35.05	384	180	A	V
		5406.48	50.2	-23.8	74	39.71	34.4	11.15	35.06	384	180	P	V
		5457.6	39.72	-14.28	54	29.18	34.4	11.2	35.06	384	180	A	V
		5106.75	48.22	-25.78	74	38.17	34.13	10.96	35.04	395	215	P	H
		5105.7	39.53	-14.47	54	29.48	34.13	10.96	35.04	395	215	A	H
	*	5300	104.47	-	-	94.1	34.3	11.12	35.05	395	215	P	H
	*	5300	96.81	-	-	86.44	34.3	11.12	35.05	395	215	A	H
802.11n		5406	48.53	-25.47	74	38.04	34.4	11.15	35.06	395	215	P	H
HT20		5351.76	39.98	-14.02	54	29.49	34.4	11.14	35.05	395	215	A	H
CH 60		5036.75	48.89	-25.11	74	39.07	34.03	10.83	35.04	400	179	P	V
5300MHz		5134.75	39.47	-14.53	54	29.39	34.17	10.96	35.05	400	179	A	V
	*	5300	102.81	-	-	92.44	34.3	11.12	35.05	400	179	P	V
	*	5300	94.3	-	-	83.93	34.3	11.12	35.05	400	179	A	V
		5409.36	48.54	-25.46	74	38.05	34.4	11.15	35.06	400	179	P	V
		5454.24	39.73	-14.27	54	29.19	34.4	11.2	35.06	400	179	A	V

	*	5320	103.36	-	-	92.95	34.33	11.13	35.05	352	214	P	H
	*	5320	95.43	-	-	85.02	34.33	11.13	35.05	352	214	A	H
		5406.4	49.96	-24.04	74	39.47	34.4	11.15	35.06	352	214	P	H
		5351.36	40.69	-13.31	54	30.2	34.4	11.14	35.05	352	214	A	H
802.11n													H
HT20													H
CH 64	*	5320	101.59	-	-	91.18	34.33	11.13	35.05	400	164	P	V
5320MHz	*	5320	93.83	-	-	83.42	34.33	11.13	35.05	400	164	A	V
		5444.64	48.37	-25.63	74	37.83	34.4	11.2	35.06	400	164	P	V
		5350.24	40.57	-13.43	54	30.08	34.4	11.14	35.05	400	164	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	46.18	-22.02	68.2	50.73	37.43	17.2	59.18	100	0	P	H
		15780	48.6	-25.4	74	44.52	40	20.62	56.54	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	46.37	-21.83	68.2	50.92	37.43	17.2	59.18	100	0	P	V
5260MHz		15780	49.45	-24.55	74	45.37	40	20.62	56.54	100	0	P	V
													V
													V
		10600	48.12	-25.88	74	52.27	37.6	17.31	59.06	100	0	P	H
		15900	50.14	-23.86	74	45.58	40.4	20.68	56.52	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	47.23	-26.77	74	51.38	37.6	17.31	59.06	100	0	P	V
5300MHz		15900	49.73	-24.27	74	45.17	40.4	20.68	56.52	100	0	P	V
													V
													V
		10640	47.55	-26.45	74	51.6	37.6	17.36	59.01	100	0	P	H
		15960	49.98	-24.02	74	45.45	40.33	20.71	56.51	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	47.89	-26.11	74	51.94	37.6	17.36	59.01	100	0	P	V
5320MHz		15960	50.32	-23.68	74	45.79	40.33	20.71	56.51	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 VHT40 (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)
		5029.05	48.15	-25.85	74	38.33	34.03	10.83	35.04	105	236	P	H
		5140	40.66	-13.34	54	30.55	34.2	10.96	35.05	105	236	A	H
	*	5270	101.83	-	-	91.53	34.23	11.12	35.05	105	236	P	H
	*	5270	94.16	-	-	83.86	34.23	11.12	35.05	105	236	A	H
802.11ac		5351.76	49.25	-24.75	74	38.76	34.4	11.14	35.05	105	236	P	H
VHT40		5351.04	41.28	-12.72	54	30.79	34.4	11.14	35.05	105	236	A	H
CH 54		5097.3	50.19	-23.81	74	40.23	34.1	10.9	35.04	383	178	P	V
5270MHz		5132.65	40.25	-13.75	54	30.17	34.17	10.96	35.05	383	178	A	V
	*	5270	99.19	-	-	88.89	34.23	11.12	35.05	383	178	P	V
	*	5270	91.31	-	-	81.01	34.23	11.12	35.05	383	178	A	V
		5365.2	48.49	-25.51	74	38	34.4	11.14	35.05	383	178	P	V
		5358.48	40.41	-13.59	54	29.92	34.4	11.14	35.05	383	178	A	V
		5138.25	48.7	-25.3	74	38.62	34.17	10.96	35.05	100	235	P	H
		5123.2	40.14	-13.86	54	30.06	34.17	10.96	35.05	100	235	A	H
	*	5310	100.3	-	-	89.89	34.33	11.13	35.05	100	235	P	H
	*	5310	92.6	-	-	82.19	34.33	11.13	35.05	100	235	A	H
802.11ac		5350.56	58.14	-15.86	74	47.65	34.4	11.14	35.05	100	235	P	H
VHT40		5350.8	50.41	-3.59	54	39.92	34.4	11.14	35.05	100	235	A	H
CH 62		5129.15	49.63	-24.37	74	39.55	34.17	10.96	35.05	400	175	P	V
5310MHz		5123.55	40.28	-13.72	54	30.2	34.17	10.96	35.05	400	175	A	V
	*	5310	98.04	-	-	87.63	34.33	11.13	35.05	400	175	P	V
	*	5310	90.27	-	-	79.86	34.33	11.13	35.05	400	175	A	V
		5350.32	51.63	-22.37	74	41.14	34.4	11.14	35.05	400	175	P	V
		5350.08	45.73	-8.27	54	35.24	34.4	11.14	35.05	400	175	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 VHT40 (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	46.16	-22.04	68.2	50.64	37.47	17.2	59.15	100	0	P	H
		15810	49.67	-24.33	74	45.47	40.1	20.64	56.54	100	0	P	H
802.11ac													H
VHT40													H
CH 54		10540	46.61	-21.59	68.2	51.09	37.47	17.2	59.15	100	0	P	V
5270MHz		15810	49.43	-24.57	74	45.23	40.1	20.64	56.54	100	0	P	V
													V
													V
		10620	47.39	-26.61	74	51.51	37.6	17.31	59.03	100	0	P	H
		15930	49.68	-24.32	74	45.12	40.37	20.7	56.51	100	0	P	H
802.11ac													H
VHT40													H
CH 62		10620	46.66	-27.34	74	50.78	37.6	17.31	59.03	100	0	P	V
5310MHz		15930	49.53	-24.47	74	44.97	40.37	20.7	56.51	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)
		5138.95	49.67	-24.33	74	39.59	34.17	10.96	35.05	100	216	P	H
		5140.7	40.6	-13.4	54	30.42	34.2	11.03	35.05	100	216	A	H
	*	5290	95.7	-	-	85.36	34.27	11.12	35.05	100	216	P	H
	*	5290	87.93	-	-	77.59	34.27	11.12	35.05	100	216	A	H
802.11ac		5354.88	57.36	-16.64	74	46.87	34.4	11.14	35.05	100	216	P	H
VHT80		5350.32	49.79	-4.21	54	39.3	34.4	11.14	35.05	100	216	A	H
CH 58		5144.2	48.6	-25.4	74	38.42	34.2	11.03	35.05	400	177	P	V
5290MHz		5143.15	40.43	-13.57	54	30.25	34.2	11.03	35.05	400	177	A	V
	*	5290	93.38	-	-	83.04	34.27	11.12	35.05	400	177	P	V
	*	5290	85.8	-	-	75.46	34.27	11.12	35.05	400	177	A	V
		5352	51.51	-22.49	74	41.02	34.4	11.14	35.05	400	177	P	V
		5350.08	44.6	-9.4	54	34.11	34.4	11.14	35.05	400	177	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	46.75	-21.45	68.2	51	37.57	17.26	59.08	100	0	P	H
		15870	49.81	-24.19	74	45.31	40.34	20.68	56.52	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	46.9	-21.3	68.2	51.15	37.57	17.26	59.08	100	0	P	V
5290MHz		15870	50.79	-23.21	74	46.29	40.34	20.68	56.52	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		5443.44	48.94	-25.06	74	38.4	34.4	11.2	35.06	114	316	P	H
		5469.04	52.15	-16.05	68.2	41.56	34.4	11.25	35.06	114	316	P	H
		5459.12	40.92	-13.08	54	30.38	34.4	11.2	35.06	114	316	A	H
	*	5500	106.01	-	-	95.42	34.4	11.25	35.06	114	316	P	H
	*	5500	98.06	-	-	87.47	34.4	11.25	35.06	114	316	A	H
													H
		5436.72	48.56	-25.44	74	38.02	34.4	11.2	35.06	394	153	P	V
		5465.84	50.68	-17.52	68.2	40.09	34.4	11.25	35.06	394	153	P	V
		5458.8	40.17	-13.83	54	29.63	34.4	11.2	35.06	394	153	A	V
	*	5500	102.5	-	-	91.91	34.4	11.25	35.06	394	153	P	V
	*	5500	95.06	-	-	84.47	34.4	11.25	35.06	394	153	A	V
													V
802.11a CH 116 5580MHz		5368.72	48.41	-25.59	74	37.92	34.4	11.14	35.05	100	326	P	H
		5462.32	48.28	-19.92	68.2	37.69	34.4	11.25	35.06	100	326	P	H
		5450.8	39.84	-14.16	54	29.3	34.4	11.2	35.06	100	326	A	H
	*	5580	106.78	-	-	96.01	34.5	11.35	35.08	100	326	P	H
	*	5580	99.24	-	-	88.47	34.5	11.35	35.08	100	326	A	H
		5732.555	51.05	-17.15	68.2	40.08	34.57	11.5	35.1	100	326	P	H
		5453.92	49.32	-24.68	74	38.78	34.4	11.2	35.06	382	152	P	V
		5470	48.08	-20.12	68.2	37.49	34.4	11.25	35.06	382	152	P	V
		5439.28	39.52	-14.48	54	28.98	34.4	11.2	35.06	382	152	A	V
	*	5580	103.27	-	-	92.5	34.5	11.35	35.08	382	152	P	V
	*	5580	96.44	-	-	85.67	34.5	11.35	35.08	382	152	A	V
		5759.96	51.9	-16.3	68.2	40.8	34.67	11.53	35.1	382	152	P	V

802.11a CH 140 5700MHz	*	5700	107.89	-	-	97.02	34.5	11.46	35.09	109	323	P	H
	*	5700	100.68	-	-	89.81	34.5	11.46	35.09	109	323	A	H
		5742.04	59.53	-8.67	68.2	48.5	34.6	11.53	35.1	109	323	P	H
													H
													H
													H
	*	5700	103.89	-	-	93.02	34.5	11.46	35.09	385	154	P	V
	*	5700	96.84	-	-	85.97	34.5	11.46	35.09	385	154	A	V
		5730.52	58.13	-10.07	68.2	47.16	34.57	11.5	35.1	385	154	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	47.27	-26.73	74	50.16	37.8	17.81	58.5	100	0	P	H
		16500	51.29	-16.91	68.2	44.94	41.4	21.15	56.2	100	0	P	H
													H
													H
		11000	47.4	-26.6	74	50.29	37.8	17.81	58.5	100	0	P	V
		16500	50.99	-17.21	68.2	44.64	41.4	21.15	56.2	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	49.71	-24.29	74	51.96	37.83	18.02	58.1	100	0	P	H
		16740	51.64	-16.56	68.2	44.59	41.7	21.36	56.01	100	0	P	H
													H
													H
		11160	48.22	-25.78	74	50.47	37.83	18.02	58.1	100	0	P	V
		16740	51.37	-16.83	68.2	44.32	41.7	21.36	56.01	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	47.13	-26.87	74	48.44	37.9	18.33	57.54	100	0	P	H
		17100	51.51	-16.69	68.2	44.62	41	21.67	55.78	100	0	P	H
													H
													H
		11400	47.33	-26.67	74	48.64	37.9	18.33	57.54	100	0	P	V
		17100	51.21	-16.99	68.2	44.32	41	21.67	55.78	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)
		5437.36	49.04	-24.96	74	38.5	34.4	11.2	35.06	400	259	P	H
		5470	49.39	-18.81	68.2	38.8	34.4	11.25	35.06	400	259	P	H
		5456.88	40.7	-13.3	54	30.16	34.4	11.2	35.06	400	259	A	H
	*	5500	100.8	-	-	90.21	34.4	11.25	35.06	400	259	P	H
	*	5500	93.04	-	-	82.45	34.4	11.25	35.06	400	259	A	H
802.11n													H
HT20		5364.4	49.12	-24.88	74	38.63	34.4	11.14	35.05	396	156	P	V
CH 100		5469.04	48.87	-19.33	68.2	38.28	34.4	11.25	35.06	396	156	P	V
5500MHz		5457.68	40.07	-13.93	54	29.53	34.4	11.2	35.06	396	156	A	V
	*	5500	99.74	-	-	89.15	34.4	11.25	35.06	396	156	P	V
	*	5500	91.31	-	-	80.72	34.4	11.25	35.06	396	156	A	V
													V
		5368.96	49.84	-24.16	74	39.35	34.4	11.14	35.05	352	227	P	H
		5464.96	48.68	-19.52	68.2	38.09	34.4	11.25	35.06	352	227	P	H
		5453.68	39.87	-14.13	54	29.33	34.4	11.2	35.06	352	227	A	H
	*	5580	102.09	-	-	91.32	34.5	11.35	35.08	352	227	P	H
	*	5580	94.34	-	-	83.57	34.5	11.35	35.08	352	227	A	H
802.11n													
HT20		5749.565	50.01	-18.19	68.2	38.98	34.6	11.53	35.1	352	227	P	H
CH 116		5459.44	49.74	-24.26	74	39.2	34.4	11.2	35.06	400	162	P	V
5580MHz		5468.32	48.08	-20.12	68.2	37.49	34.4	11.25	35.06	400	162	P	V
		5456.32	39.8	-14.2	54	29.26	34.4	11.2	35.06	400	162	A	V
	*	5580	99.87	-	-	89.1	34.5	11.35	35.08	400	162	P	V
	*	5580	92.05	-	-	81.28	34.5	11.35	35.08	400	162	A	V
		5759.645	50.17	-18.03	68.2	39.07	34.67	11.53	35.1	400	162	P	V

	*	5700	99.99	-	-	89.12	34.5	11.46	35.09	397	205	P	H
	*	5700	92.3	-	-	81.43	34.5	11.46	35.09	397	205	A	H
		5760.12	50.64	-17.56	68.2	39.54	34.67	11.53	35.1	397	205	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	99.49	-	-	88.62	34.5	11.46	35.09	400	180	P	V
5700MHz	*	5700	91.87	-	-	81	34.5	11.46	35.09	400	180	A	V
		5759.88	52.9	-15.3	68.2	41.8	34.67	11.53	35.1	400	180	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	47.04	-26.96	74	49.93	37.8	17.81	58.5	100	0	P	H
		16500	51.36	-16.84	68.2	45.01	41.4	21.15	56.2	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	46.79	-27.21	74	49.68	37.8	17.81	58.5	100	0	P	V
5500MHz		16500	51.21	-16.99	68.2	44.86	41.4	21.15	56.2	100	0	P	V
													V
													V
		11160	48.27	-25.73	74	50.52	37.83	18.02	58.1	100	0	P	H
		16740	52.37	-15.83	68.2	45.32	41.7	21.36	56.01	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	48.19	-25.81	74	50.44	37.83	18.02	58.1	100	0	P	V
5580MHz		16740	52.05	-16.15	68.2	45	41.7	21.36	56.01	100	0	P	V
													V
													V
		11400	48.15	-25.85	74	49.46	37.9	18.33	57.54	100	0	P	H
		17100	50.81	-17.39	68.2	43.92	41	21.67	55.78	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	48.8	-25.2	74	50.11	37.9	18.33	57.54	100	0	P	V
5700MHz		17100	50.48	-17.72	68.2	43.59	41	21.67	55.78	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 VHT40 (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	51.96	-22.04	74	41.42	34.4	11.2	35.06	100	222	P	H
		5469.04	53.9	-14.3	68.2	43.31	34.4	11.25	35.06	100	222	P	H
		5459.44	43.39	-10.61	54	32.85	34.4	11.2	35.06	100	222	A	H
	*	5510	99.19	-	-	88.55	34.4	11.3	35.06	100	222	P	H
802.11ac	*	5510	91.39	-	-	80.75	34.4	11.3	35.06	100	222	A	H
VHT40		5758.385	49.33	-18.87	68.2	38.23	34.67	11.53	35.1	100	222	P	H
CH 102		5451.52	50.09	-23.91	74	39.55	34.4	11.2	35.06	394	161	P	V
5510MHz		5470	50.98	-17.22	68.2	40.39	34.4	11.25	35.06	394	161	P	V
		5459.92	40.96	-13.04	54	30.42	34.4	11.2	35.06	394	161	A	V
	*	5510	95.34	-	-	84.7	34.4	11.3	35.06	394	161	P	V
	*	5510	87.83	-	-	77.19	34.4	11.3	35.06	394	161	A	V
		5759.96	52.66	-15.54	68.2	41.56	34.67	11.53	35.1	394	161	P	V
		5446	49.68	-24.32	74	39.14	34.4	11.2	35.06	103	327	P	H
		5466.88	50.47	-17.73	68.2	39.88	34.4	11.25	35.06	103	327	P	H
		5457.76	41.29	-12.71	54	30.75	34.4	11.2	35.06	103	327	A	H
	*	5550	100.82	-	-	90.04	34.5	11.35	35.07	103	327	P	H
802.11ac	*	5550	93.02	-	-	82.24	34.5	11.35	35.07	103	327	A	H
VHT40		5740.745	50.19	-18.01	68.2	39.16	34.6	11.53	35.1	103	327	P	H
CH 110		5435.68	49.26	-24.74	74	38.72	34.4	11.2	35.06	400	4	P	V
5550MHz		5463.28	49.34	-18.86	68.2	38.75	34.4	11.25	35.06	400	4	P	V
		5459.92	40.63	-13.37	54	30.09	34.4	11.2	35.06	400	4	A	V
	*	5550	96.88	-	-	86.1	34.5	11.35	35.07	400	4	P	V
	*	5550	89.11	-	-	78.33	34.5	11.35	35.07	400	4	A	V
		5759.645	54.27	-13.93	68.2	43.17	34.67	11.53	35.1	400	4	P	V

		5389.9	48.65	-25.35	74	38.16	34.4	11.15	35.06	101	326	P	H
		5465.5	48.05	-20.15	68.2	37.46	34.4	11.25	35.06	101	326	P	H
		5446.6	40.46	-13.54	54	29.92	34.4	11.2	35.06	101	326	A	H
	*	5670	102.23	-	-	91.36	34.5	11.46	35.09	101	326	P	H
802.11ac	*	5670	94.48	-	-	83.61	34.5	11.46	35.09	101	326	A	H
VHT40		5735.075	52.18	-16.02	68.2	41.18	34.6	11.5	35.1	101	326	P	H
CH 134		5372.4	48.99	-25.01	74	38.5	34.4	11.14	35.05	400	358	P	V
5670MHz		5465.5	47.37	-20.83	68.2	36.78	34.4	11.25	35.06	400	358	P	V
		5456.4	40.25	-13.75	54	29.71	34.4	11.2	35.06	400	358	A	V
	*	5670	98.73	-	-	87.86	34.5	11.46	35.09	400	358	P	V
	*	5670	90.9	-	-	80.03	34.5	11.46	35.09	400	358	A	V
		5759.925	53.34	-14.86	68.2	42.24	34.67	11.53	35.1	400	358	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 VHT40 (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	47.74	-26.26	74	50.57	37.82	17.81	58.46	100	0	P	H
		16530	51.55	-16.65	68.2	45.04	41.5	21.18	56.17	100	0	P	H
802.11ac													H
VHT40													H
CH 102		11020	46.79	-27.21	74	49.62	37.82	17.81	58.46	100	0	P	V
5510MHz		16530	51.79	-16.41	68.2	45.28	41.5	21.18	56.17	100	0	P	V
													V
													V
		11100	47	-27	74	49.44	37.9	17.92	58.26	100	0	P	H
		16650	52.76	-15.44	68.2	45.86	41.7	21.28	56.08	100	0	P	H
802.11ac													H
VHT40													H
CH 110		11100	47.65	-26.35	74	50.09	37.9	17.92	58.26	100	0	P	V
5550MHz		16650	52.89	-15.31	68.2	45.99	41.7	21.28	56.08	100	0	P	V
													V
													V
		11340	48.07	-25.93	74	49.64	37.9	18.23	57.7	100	0	P	H
		17010	51.58	-16.62	68.2	44.45	41.33	21.6	55.8	100	0	P	H
802.11ac													H
VHT40													H
CH 134		11340	48.53	-25.47	74	50.1	37.9	18.23	57.7	100	0	P	V
5670MHz		17010	51.65	-16.55	68.2	44.52	41.33	21.6	55.8	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)
		5457.76	58.2	-15.8	74	47.66	34.4	11.2	35.06	102	328	P	H
		5469.76	58.51	-9.69	68.2	47.92	34.4	11.25	35.06	102	328	P	H
		5458.96	46.31	-7.69	54	35.77	34.4	11.2	35.06	102	328	A	H
	*	5530	95.61	-	-	84.95	34.43	11.3	35.07	102	328	P	H
802.11ac	*	5530	88.13	-	-	77.47	34.43	11.3	35.07	102	328	A	H
VHT80		5758.07	51.79	-16.41	68.2	40.69	34.67	11.53	35.1	102	328	P	H
CH 106		5434	50.37	-23.63	74	39.83	34.4	11.2	35.06	367	167	P	V
5530MHz		5461.6	52.54	-15.66	68.2	41.95	34.4	11.25	35.06	367	167	P	V
		5455.36	41.48	-12.52	54	30.94	34.4	11.2	35.06	367	167	A	V
	*	5530	91.92	-	-	81.26	34.43	11.3	35.07	367	167	P	V
	*	5530	84.49	-	-	73.83	34.43	11.3	35.07	367	167	A	V
		5759.645	50.63	-17.57	68.2	39.53	34.67	11.53	35.1	367	167	P	V
		5443.45	48.62	-25.38	74	38.08	34.4	11.2	35.06	100	327	P	H
		5465.15	47.5	-20.7	68.2	36.91	34.4	11.25	35.06	100	327	P	H
		5424.9	40.72	-13.28	54	30.18	34.4	11.2	35.06	100	327	A	H
	*	5610	97.15	-	-	86.33	34.5	11.4	35.08	100	327	P	H
802.11ac	*	5610	89.55	-	-	78.73	34.5	11.4	35.08	100	327	A	H
VHT80		5728.075	51.17	-17.03	68.2	40.2	34.57	11.5	35.1	100	327	P	H
CH 122		5388.5	48.44	-25.56	74	37.95	34.4	11.15	35.06	394	178	P	V
5610MHz		5464.45	48.12	-20.08	68.2	37.53	34.4	11.25	35.06	394	178	P	V
		5433.3	40.45	-13.55	54	29.91	34.4	11.2	35.06	394	178	A	V
	*	5610	92.38	-	-	81.56	34.5	11.4	35.08	394	178	P	V
	*	5610	84.8	-	-	73.98	34.5	11.4	35.08	394	178	A	V
		5759.575	52.3	-15.9	68.2	41.2	34.67	11.53	35.1	394	178	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)
		10600	47.31	-26.69	74	51.46	37.6	17.31	59.06	100	0	P	H
		16590	51.65	-16.55	68.2	44.88	41.65	21.25	56.13	100	0	P	H
802.11ac													H
VHT80													H
CH 106		10600	46.91	-27.09	74	51.06	37.6	17.31	59.06	100	0	P	V
5530MHz		16590	52	-16.2	68.2	45.23	41.65	21.25	56.13	100	0	P	V
													V
													V
		11220	47.63	-26.37	74	49.72	37.82	18.07	57.98	100	0	P	H
		16830	52.03	-16.17	68.2	44.85	41.67	21.45	55.94	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	48.43	-25.57	74	50.52	37.82	18.07	57.98	100	0	P	V
5610MHz		16830	52.86	-15.34	68.2	45.68	41.67	21.45	55.94	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 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	*	5720	109.92	-	-	98.95	34.57	11.5	35.1	100	327	P	H
	*	5720	102.38	-	-	91.41	34.57	11.5	35.1	100	327	A	H
													H
													H
													H
													H
	*	5720	105.31	-	-	94.34	34.57	11.5	35.1	384	161	P	V
	*	5720	97.82	-	-	86.85	34.57	11.5	35.1	384	161	A	V
													V
													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 (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		11444	47.33	-26.67	74	48.48	37.93	18.38	57.46	100	0	P	H
		17160	50.74	-17.46	68.2	43.77	41	21.74	55.77	100	0	P	H
													H
													H
		11440	48.15	-25.85	74	49.3	37.93	18.38	57.46	100	0	P	V
		17160	50.82	-17.38	68.2	43.85	41	21.74	55.77	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)
	*	5720	106.68	-	-	95.71	34.57	11.5	35.1	100	327	P	H
	*	5720	99.01	-	-	88.04	34.57	11.5	35.1	100	327	A	H
													H
													H
802.11n													H
HT20													H
CH 144	*	5720	102.16	-	-	91.19	34.57	11.5	35.1	383	160	P	V
5720MHz	*	5720	94.57	-	-	83.6	34.57	11.5	35.1	383	160	A	V
													V
													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 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	47.8	-26.2	74	48.95	37.93	18.38	57.46	100	0	P	H
		17160	50.89	-17.31	68.2	43.92	41	21.74	55.77	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	47.71	-26.29	74	48.86	37.93	18.38	57.46	100	0	P	V
5720MHz		17160	50.45	-17.75	68.2	43.48	41	21.74	55.77	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 VHT40 (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)
	*	5710	103.12	-	-	92.19	34.53	11.5	35.1	107	319	P	H
	*	5710	95.2	-	-	84.27	34.53	11.5	35.1	107	319	A	H
													H
													H
802.11ac													H
VHT40													H
CH 142	*	5710	97.57	-	-	86.64	34.53	11.5	35.1	385	142	P	V
5710MHz	*	5710	89.8	-	-	78.87	34.53	11.5	35.1	385	142	A	V
													V
													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 VHT40 (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	47.58	-26.42	74	48.83	37.92	18.33	57.5	100	0	P	H
		17130	51.3	-16.9	68.2	44.37	41	21.7	55.77	100	0	P	H
802.11ac													H
VHT40													H
CH 142		11420	48.29	-25.71	74	49.54	37.92	18.33	57.5	100	0	P	V
5710MHz		17130	50.81	-17.39	68.2	43.88	41	21.7	55.77	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)
	*	5690	98.25	-	-	87.38	34.5	11.46	35.09	105	319	P	H
	*	5690	90.76	-	-	79.89	34.5	11.46	35.09	105	319	A	H
													H
													H
802.11ac													H
VHT80													H
CH 138	*	5690	93.79	-	-	82.92	34.5	11.46	35.09	386	164	P	V
5690MHz	*	5690	85.77	-	-	74.9	34.5	11.46	35.09	386	164	A	V
													V
													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 (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	48.52	-25.48	74	49.92	37.9	18.28	57.58	100	0	P	H
		17070	50.64	-17.56	68.2	43.64	41.13	21.66	55.79	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	47.64	-26.36	74	49.04	37.9	18.28	57.58	100	0	P	V
5690MHz		17070	50.74	-17.46	68.2	43.74	41.13	21.66	55.79	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 VHT40 (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 VHT40 LF		30.27	24.24	-15.76	40	28.49	24.6	1.33	30.18			P	H
		144.21	28.78	-14.72	43.5	39.31	17.26	2.24	30.03			P	H
		190.11	25.4	-18.1	43.5	38.24	14.75	2.38	29.97			P	H
		864.2	31.95	-14.05	46	27.13	29	4.88	29.06			P	H
		945.4	33.49	-12.51	46	26.9	30.13	5.05	28.59			P	H
		959.4	33.6	-12.4	46	26.2	30.85	5.05	28.5	100	0	P	H
													H
													H
													H
													H
													H
													H
		30.27	32.47	-7.53	40	36.72	24.6	1.33	30.18	100	0	P	V
		159.87	21.47	-22.03	43.5	32.66	16.57	2.25	30.01			P	V
		295.95	21.59	-24.41	46	29.59	19.08	2.86	29.94			P	V
		885.9	31.98	-14.02	46	27.2	28.85	4.89	28.96			P	V
		930	32.56	-13.44	46	26.8	29.49	4.97	28.7			P	V
		955.9	34.16	-11.84	46	26.94	30.69	5.05	28.52			P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
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

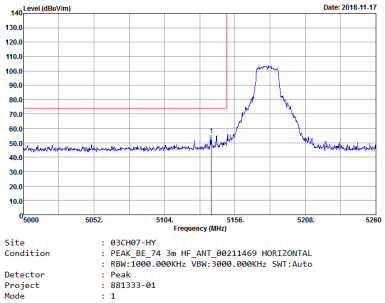
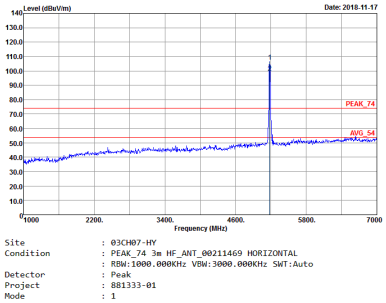
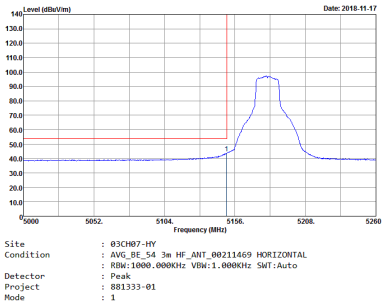
Test Engineer :	Jesse Wang, Stan Hsieh, Nick Yu, and Troye Hsieh	**Temperature :**	24~26°C
		Relative Humidity :	54~56%

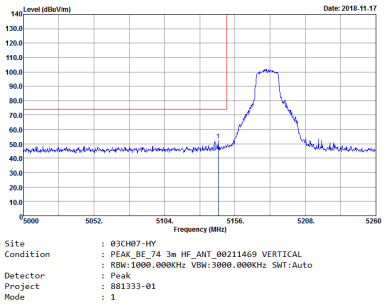
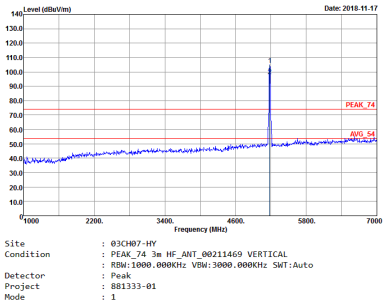
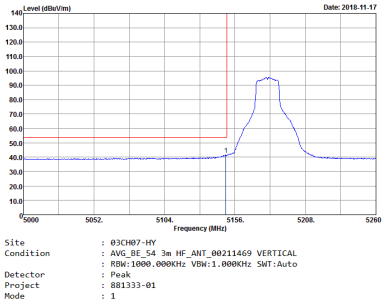
Note symbol

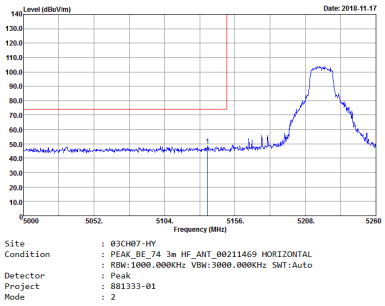
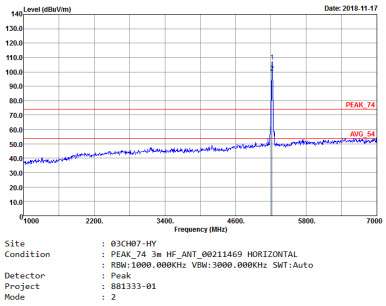
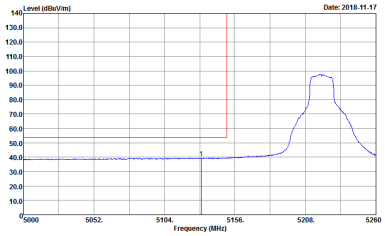
-L	**Low channel location**
-R	**High channel location**

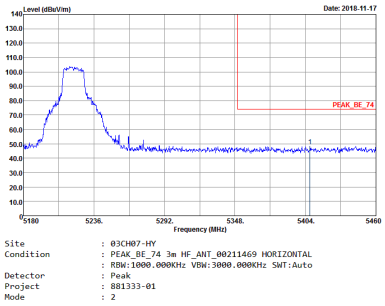
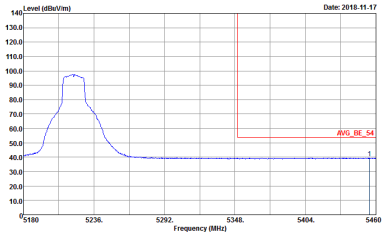
Band 1 - 5150~5250MHz

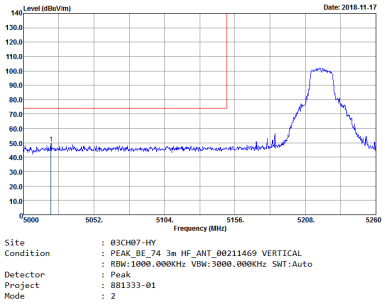
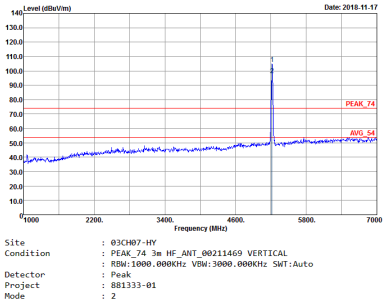
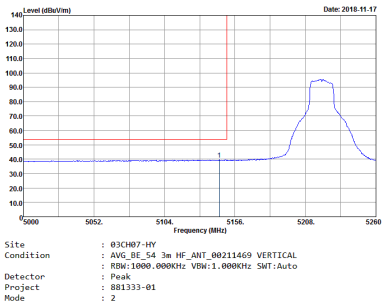
WIFI 802.11a (Band Edge @ 3m)

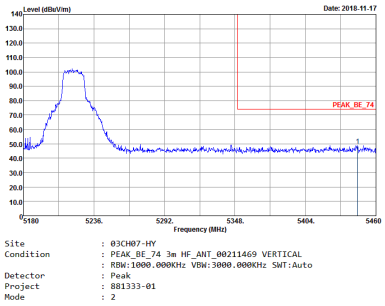
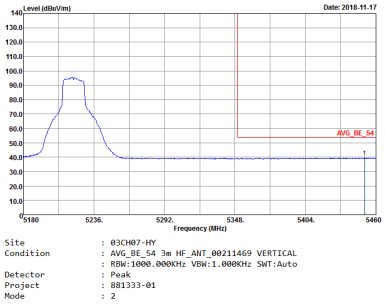
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

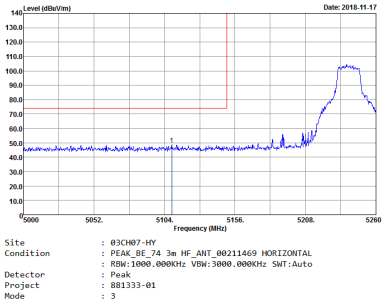
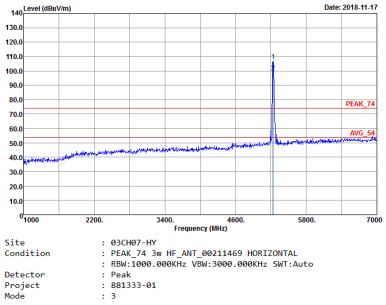
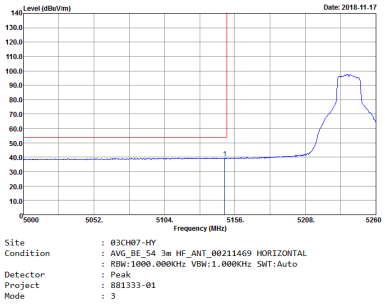
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

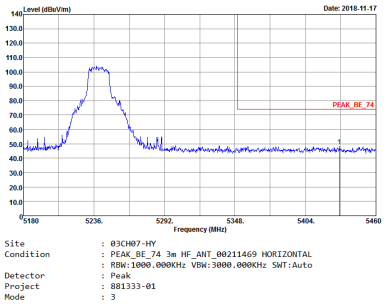
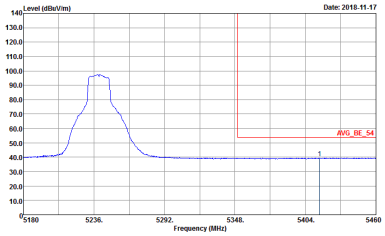
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 2	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 2
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 2	Left blank

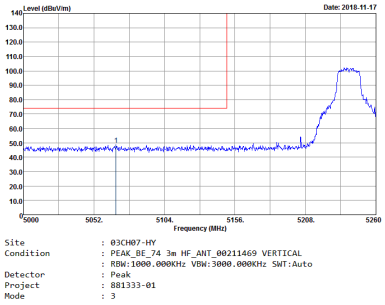
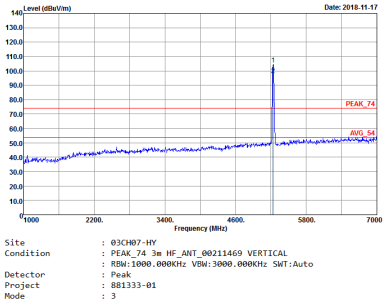
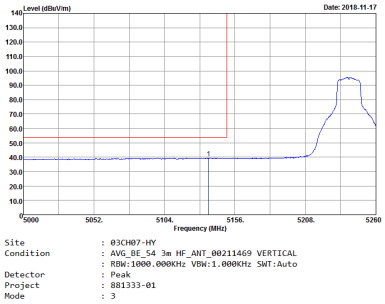
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 2	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 2	Left blank

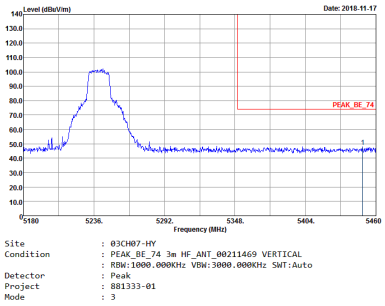
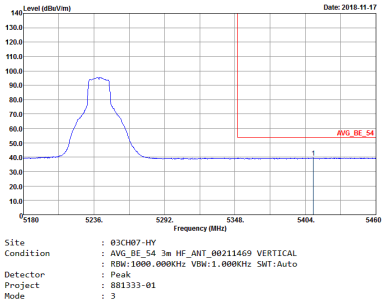
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

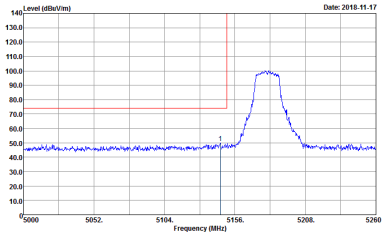
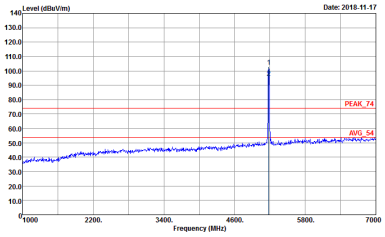
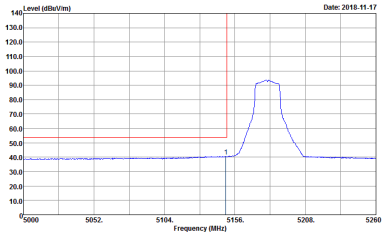
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

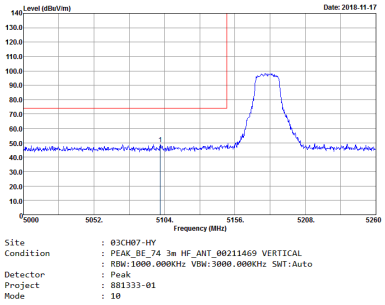
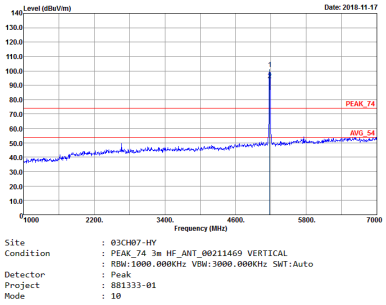
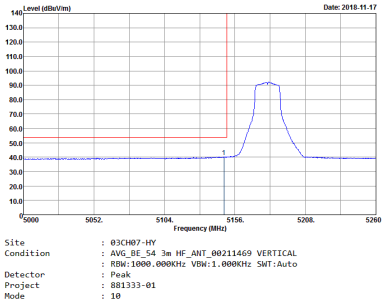
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 3	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 3	Left blank

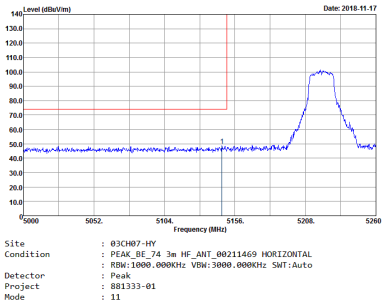
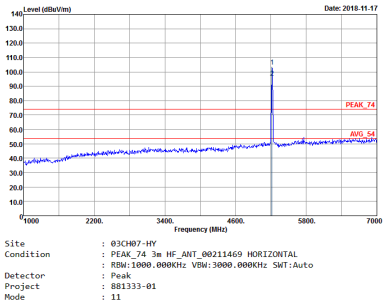
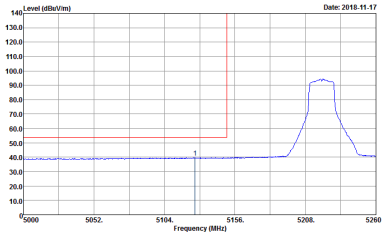
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

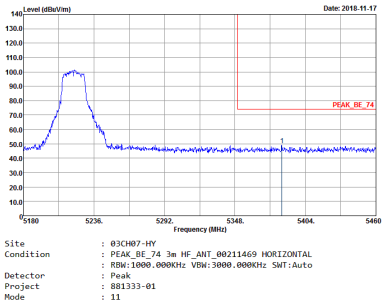
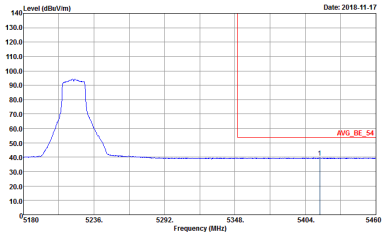
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

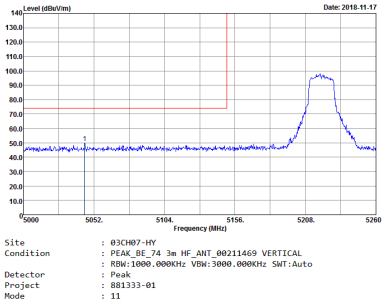
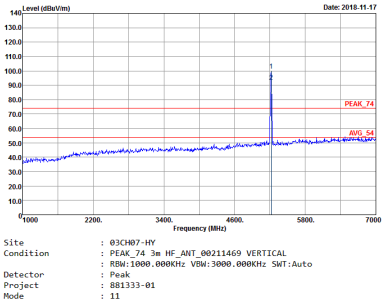
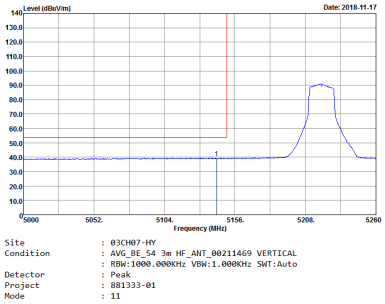
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

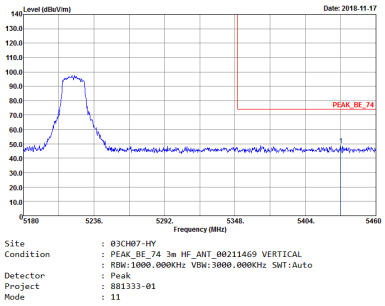
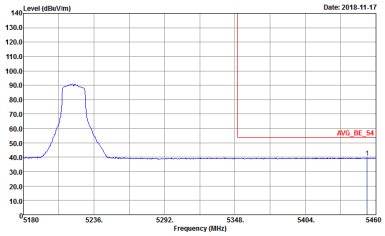
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

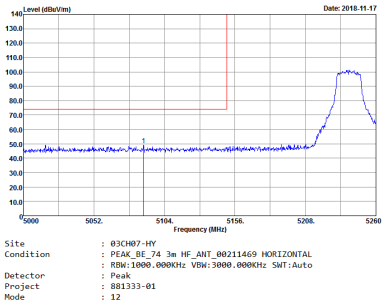
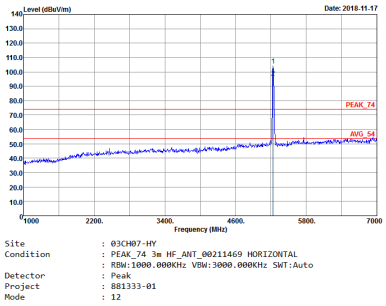
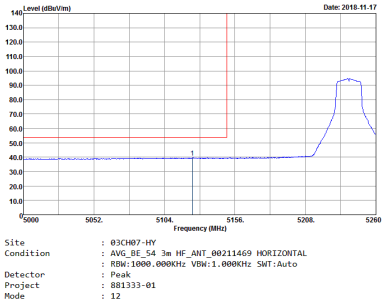
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

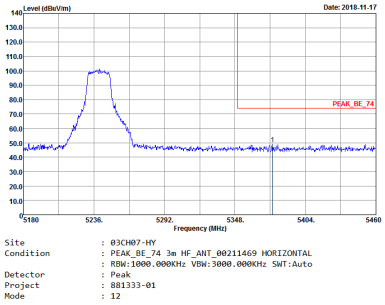
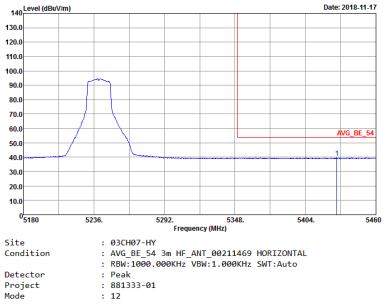
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank

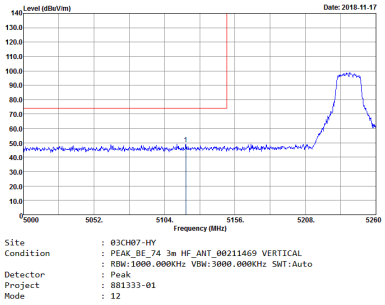
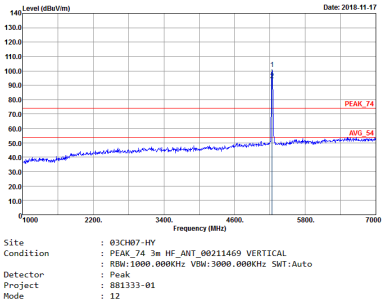
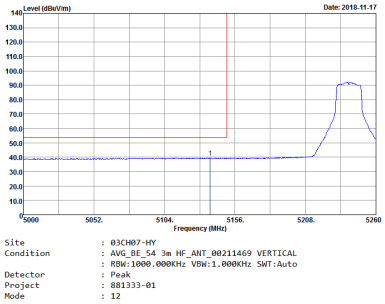
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank

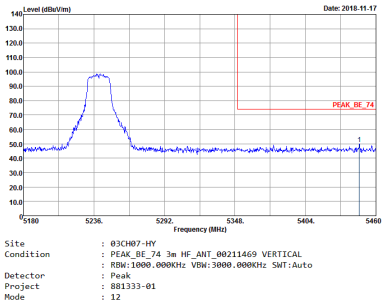
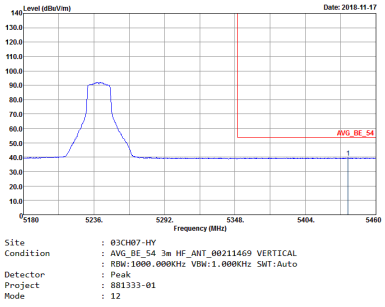
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 11	Left blank

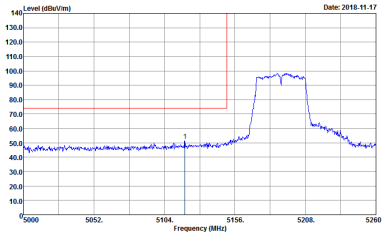
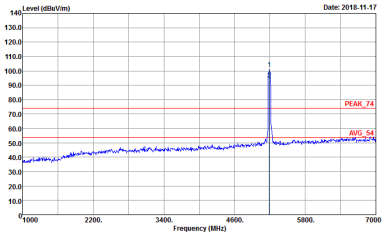
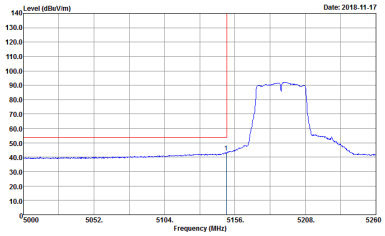
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

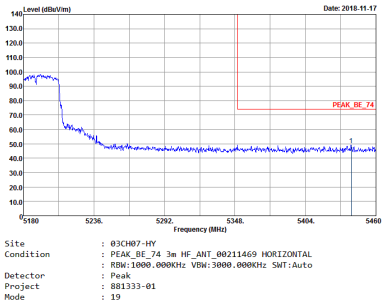
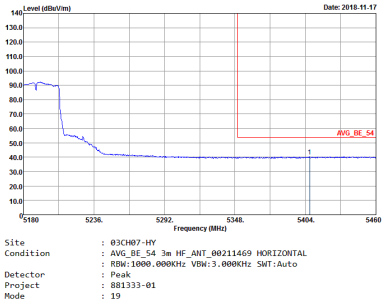
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 12	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 12	Left blank

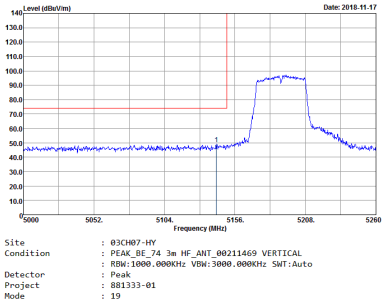
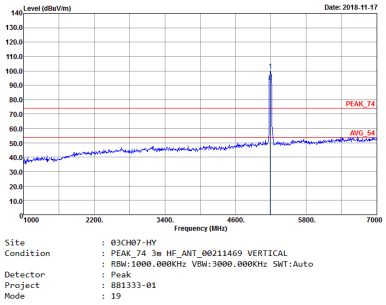
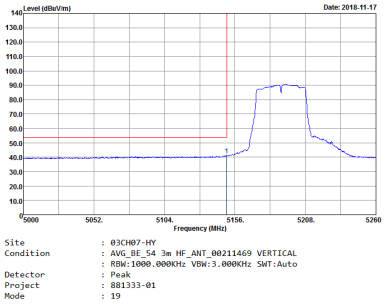
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 12	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 12	Left blank

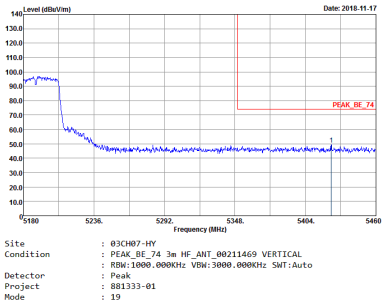
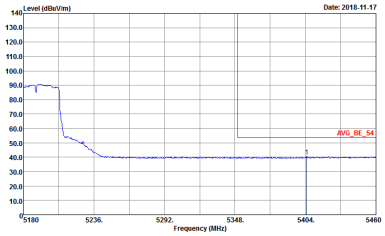
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

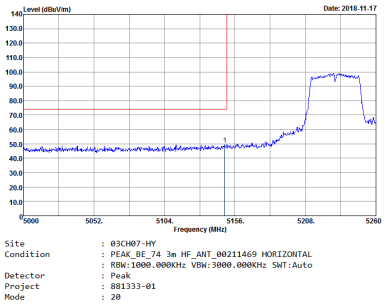
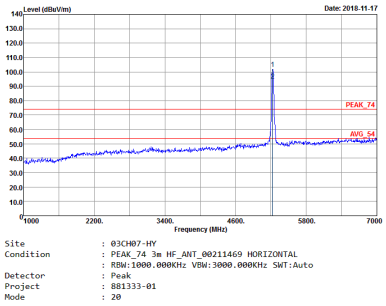
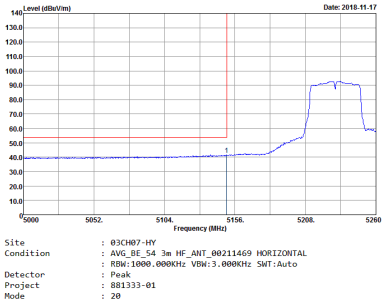
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

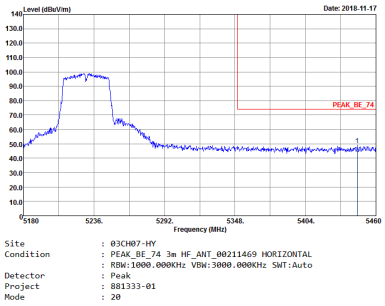
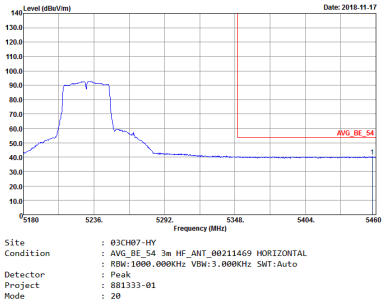
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 19	Left blank

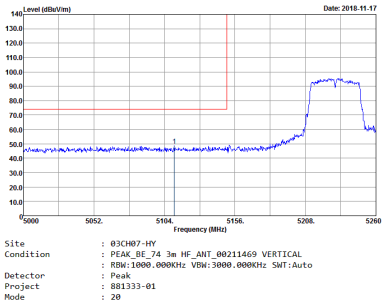
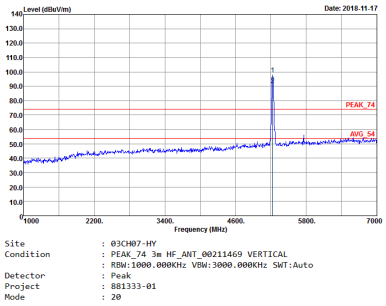
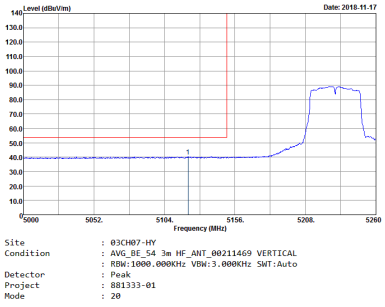
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

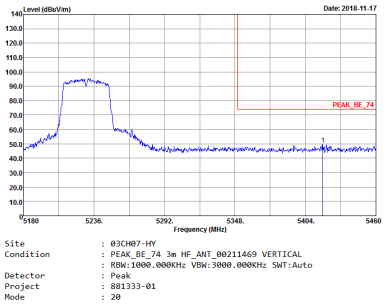
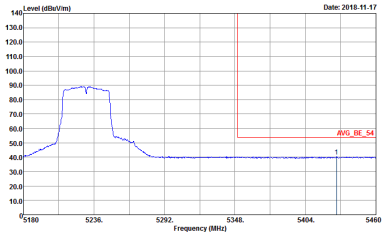
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 19	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 19	Left blank

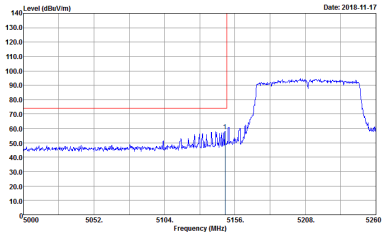
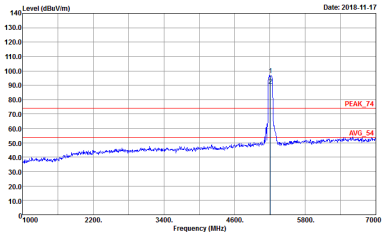
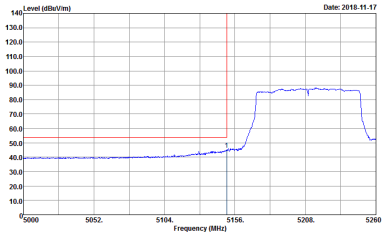
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

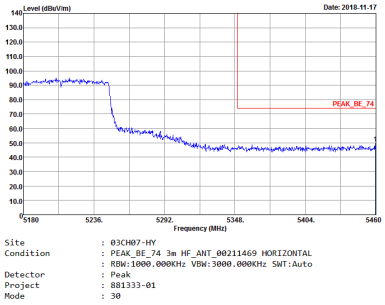
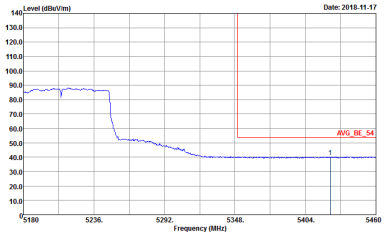
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

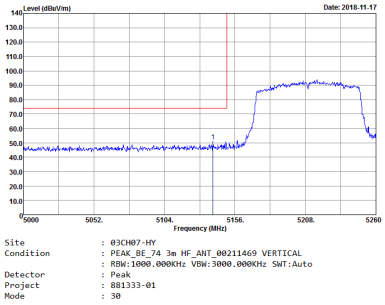
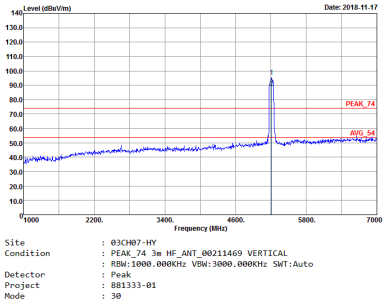
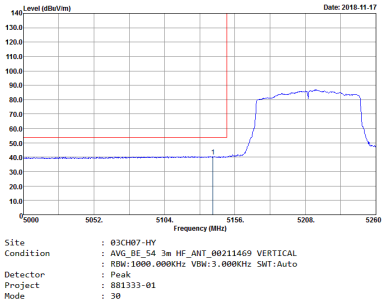
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

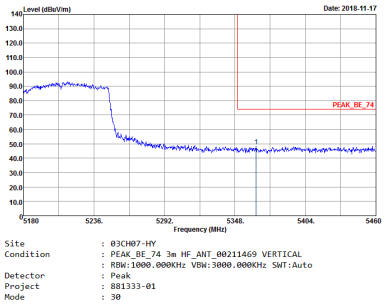
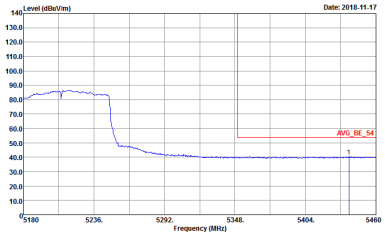
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 20	Left blank

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

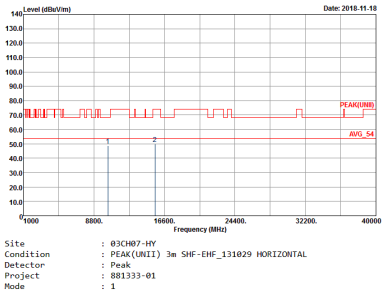
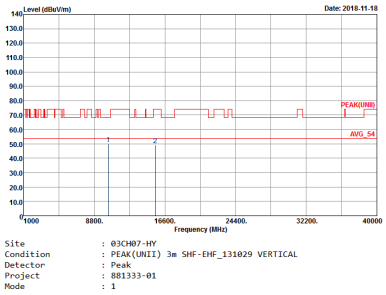
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	Left blank

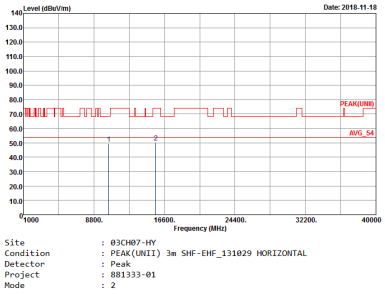
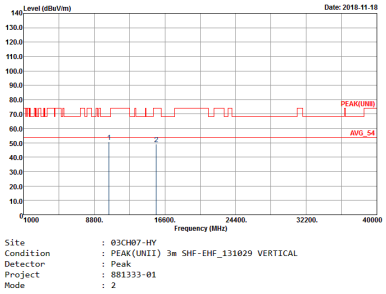
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	Left blank

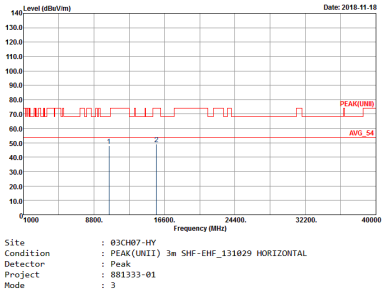
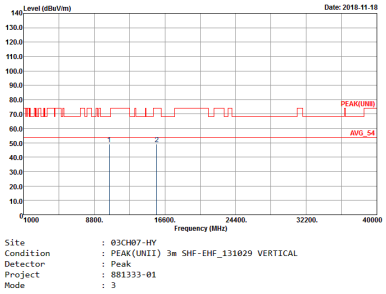
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 30	Left blank

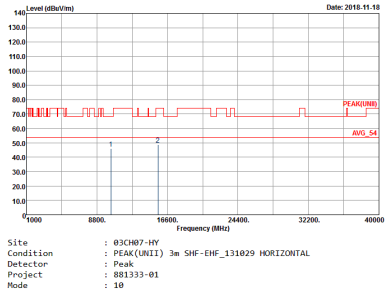
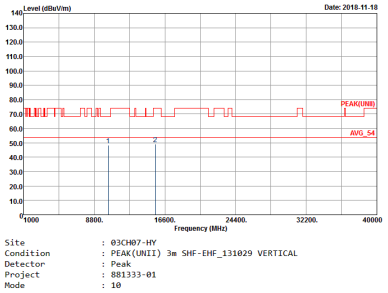
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

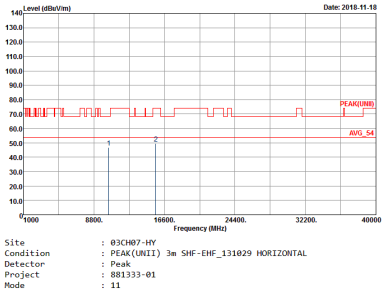
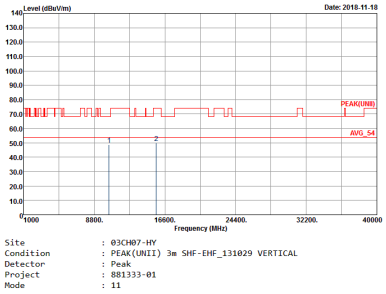
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

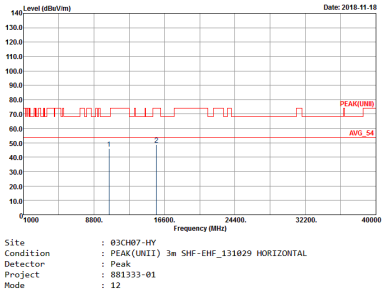
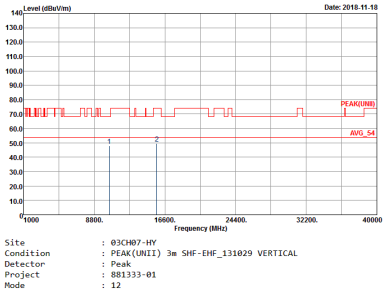
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

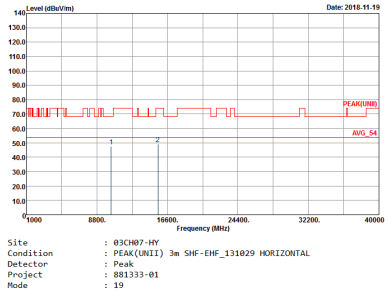
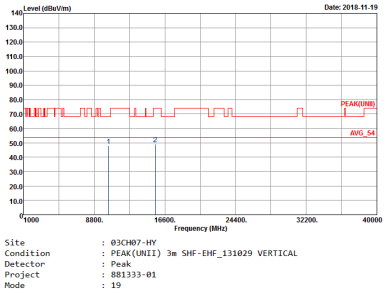
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

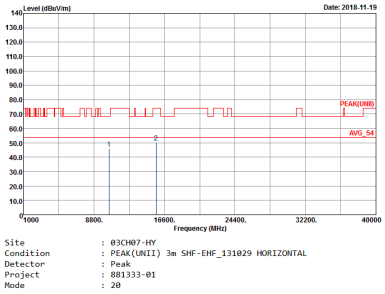
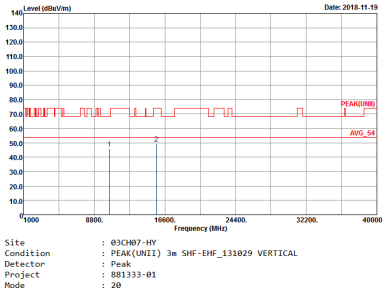
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

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

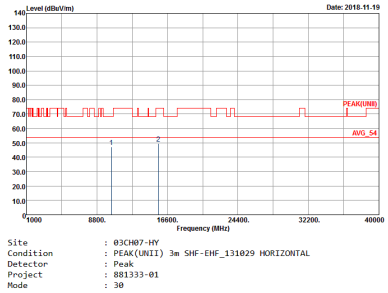
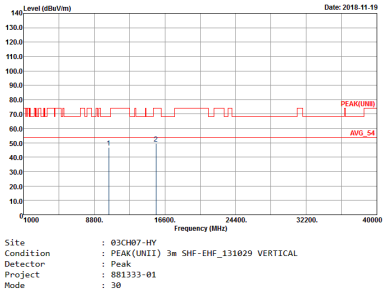
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

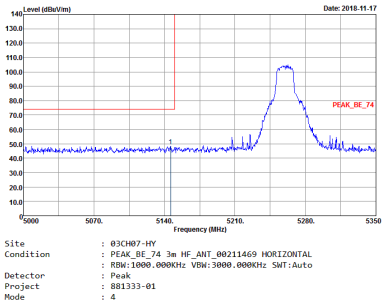
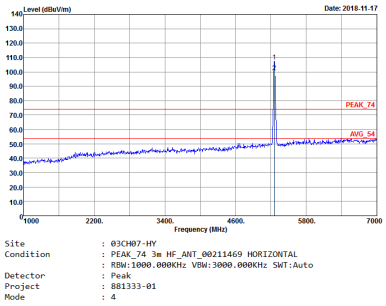
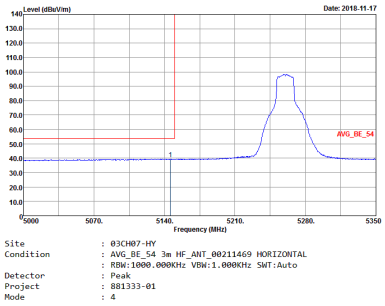
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 881333-01 Mode : 19	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 881333-01 Mode : 19

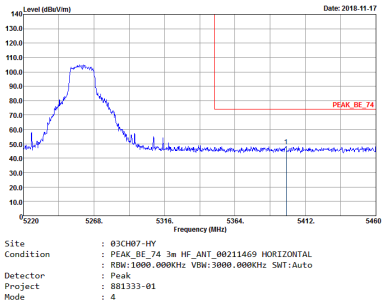
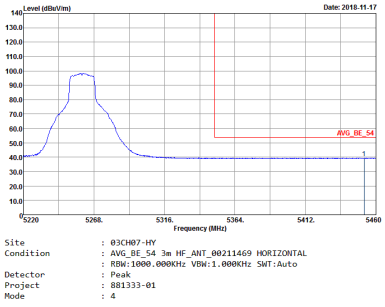
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

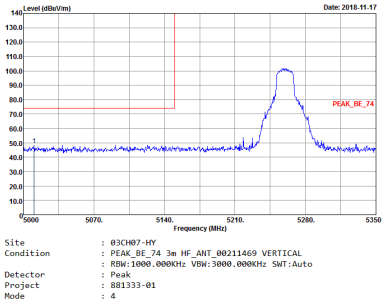
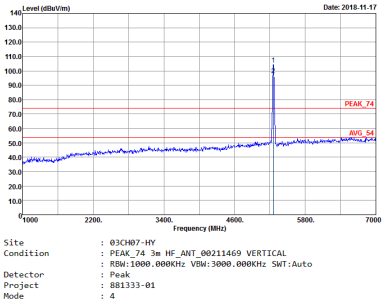
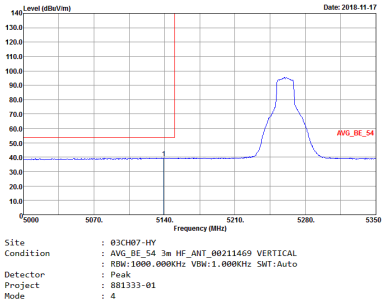
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

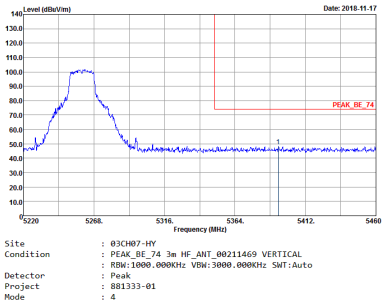
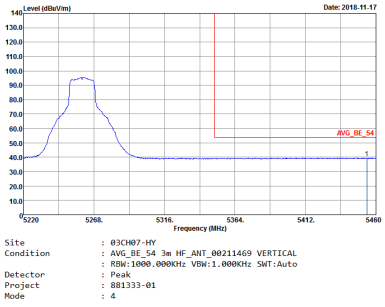
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

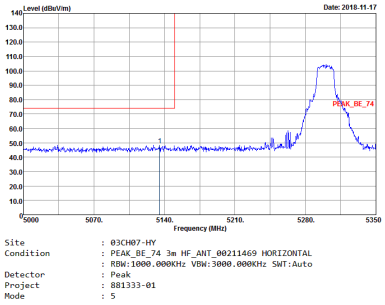
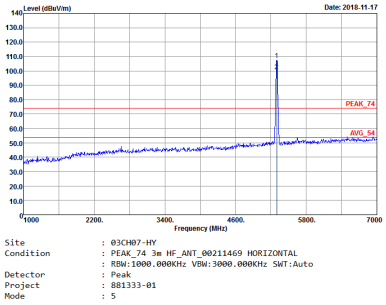
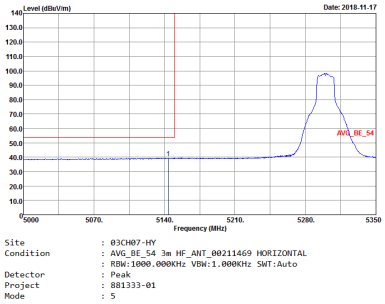
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

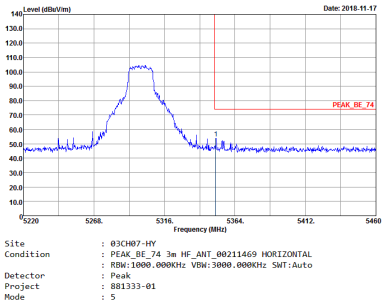
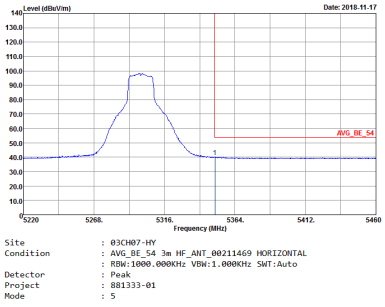
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

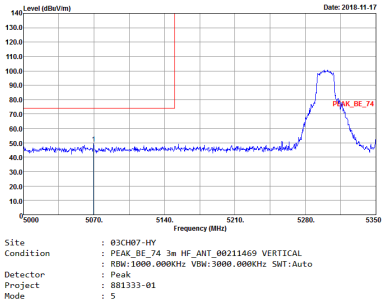
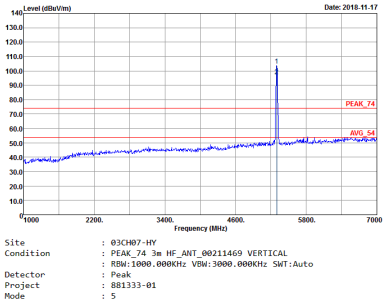
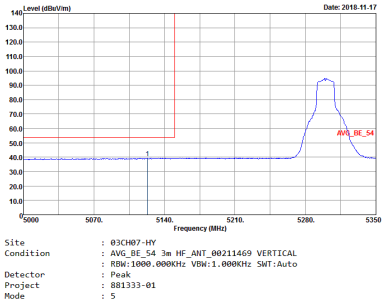
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

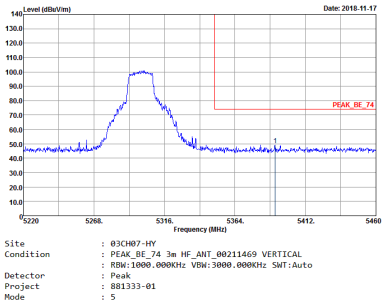
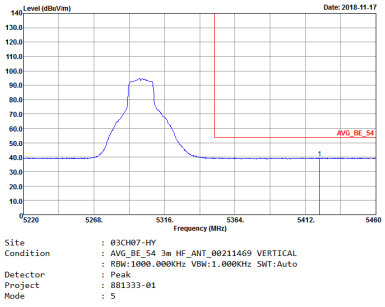
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 4	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 4
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 4	Left blank

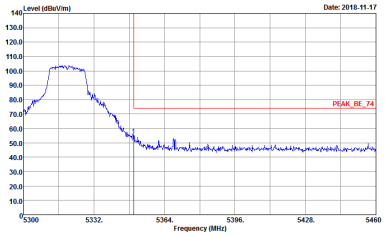
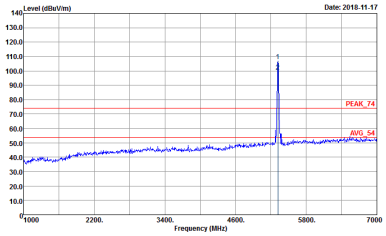
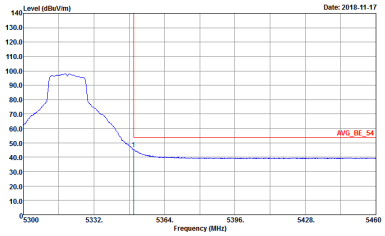
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

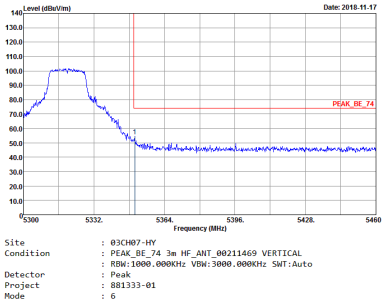
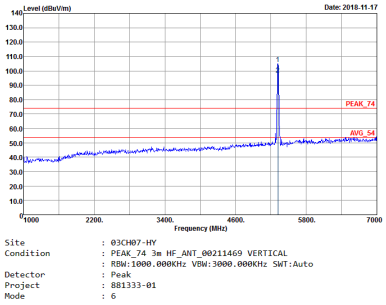
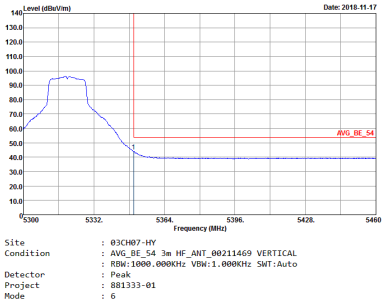
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 5	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 5	Left blank

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

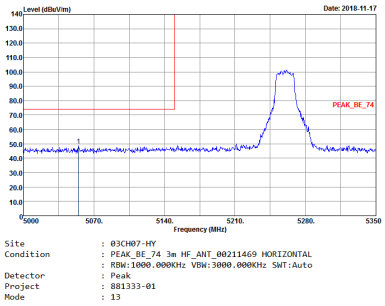
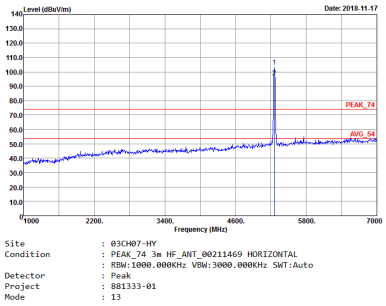
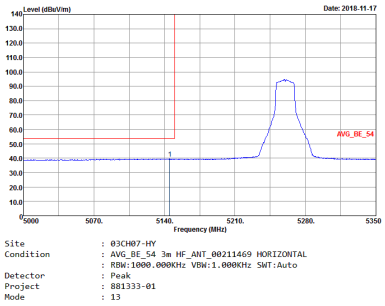
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

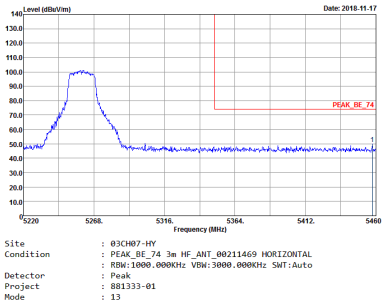
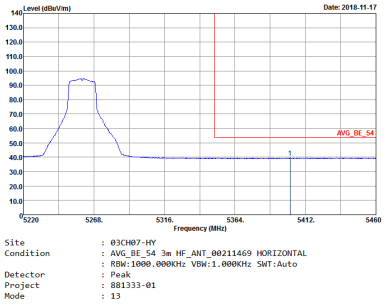
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

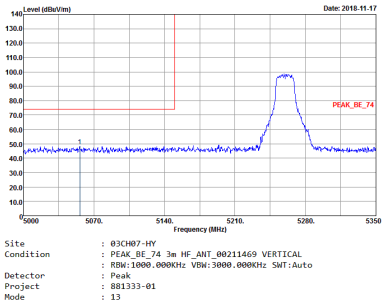
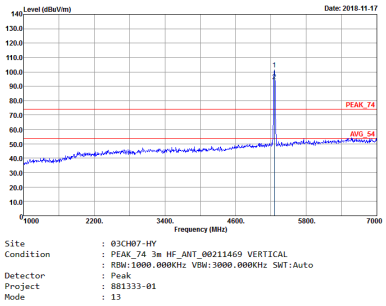
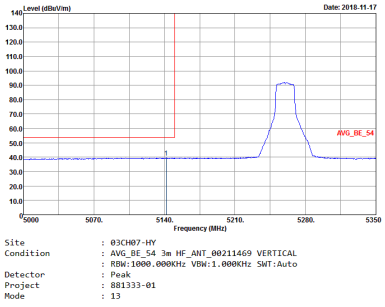
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 6	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 6
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 6	Left blank

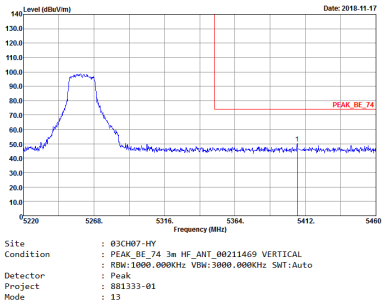
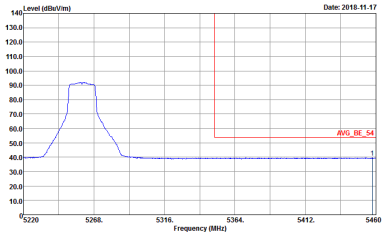
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

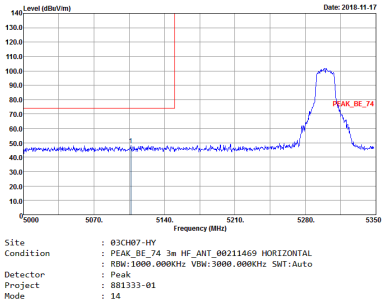
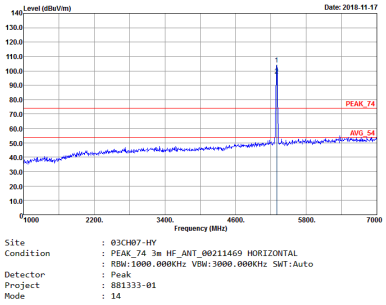
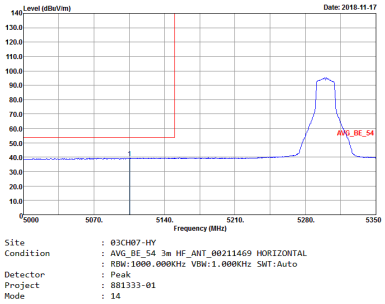
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

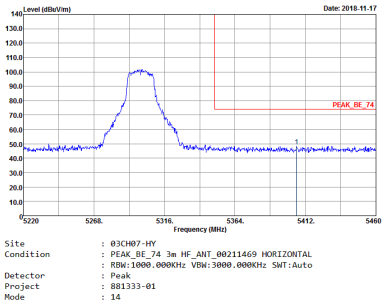
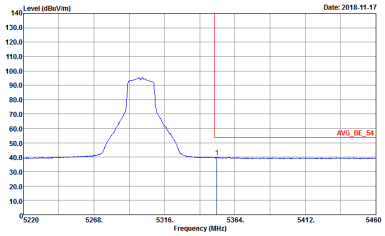
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

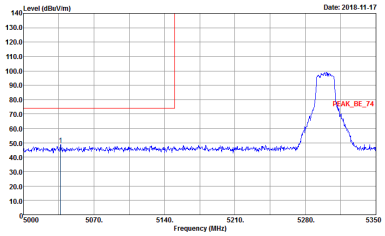
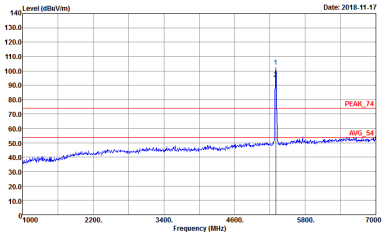
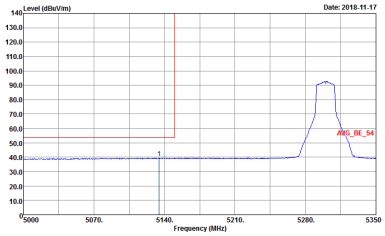
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

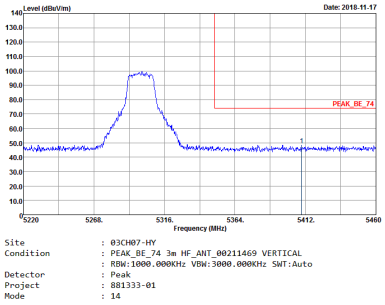
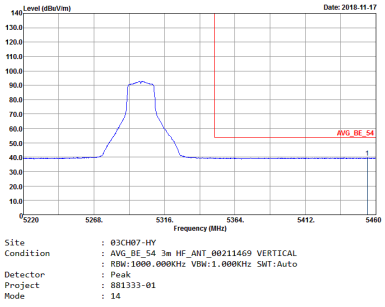
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

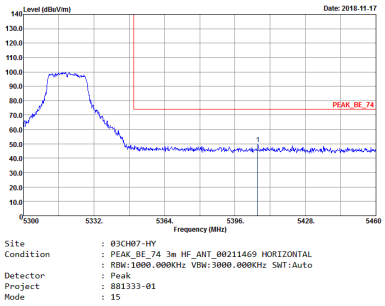
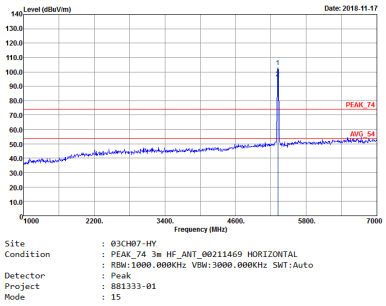
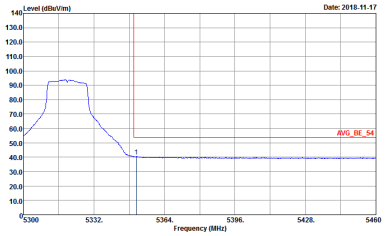
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 13	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 13	Left blank

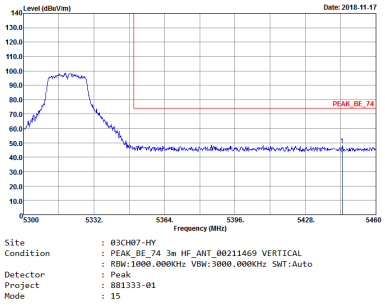
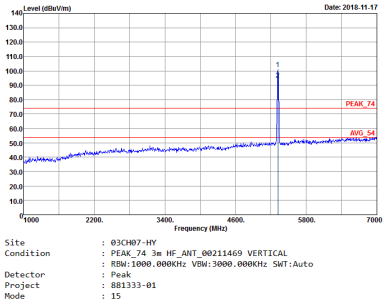
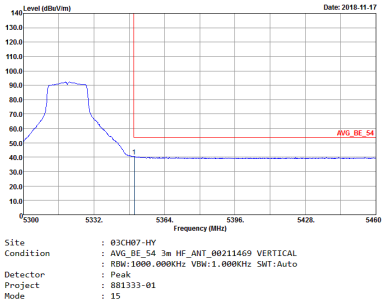
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 14	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 14	Left blank

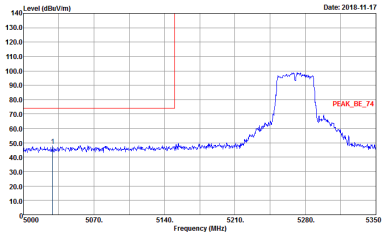
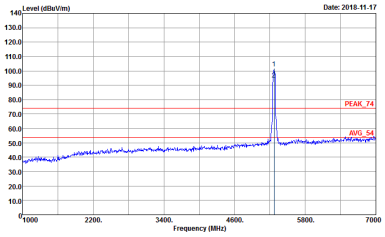
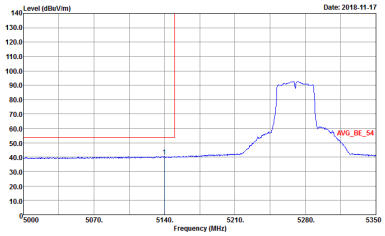
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 14	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 14
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 14	Left blank

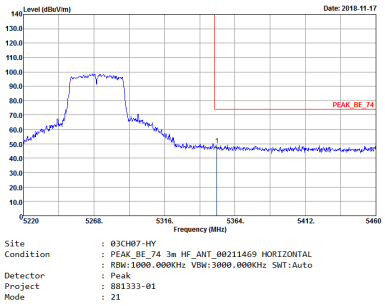
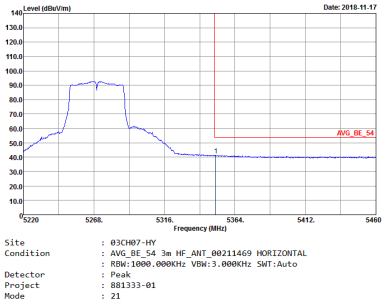
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

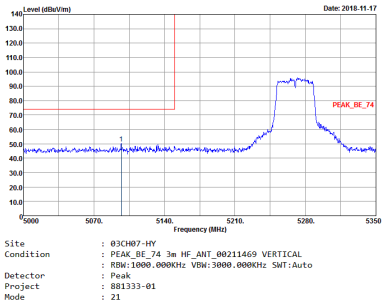
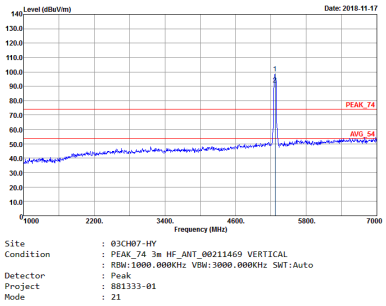
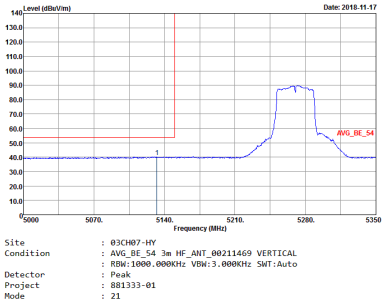
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15	Left blank

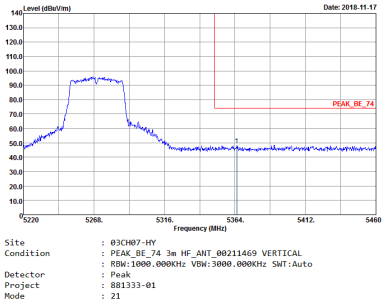
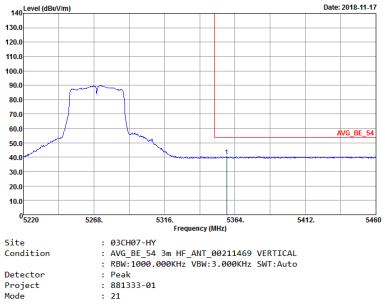
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 15	Left blank

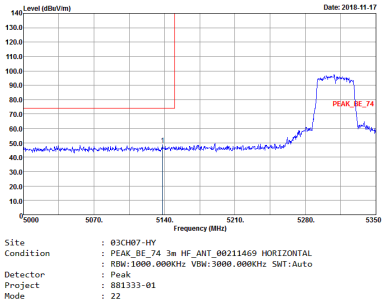
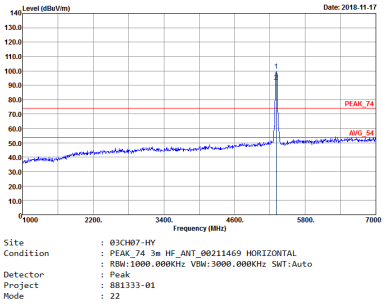
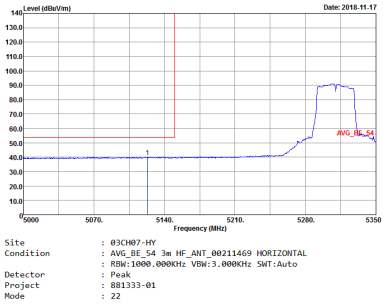
Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

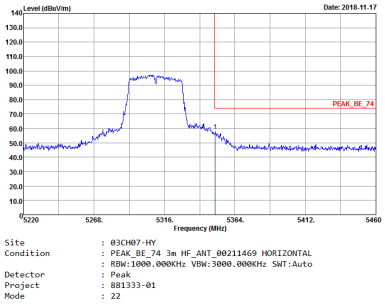
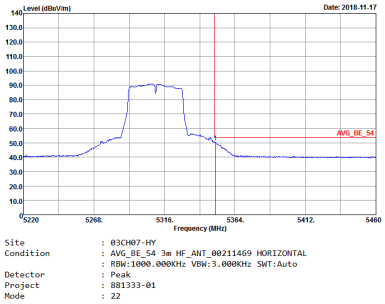
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 21	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 21
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 21	Left blank

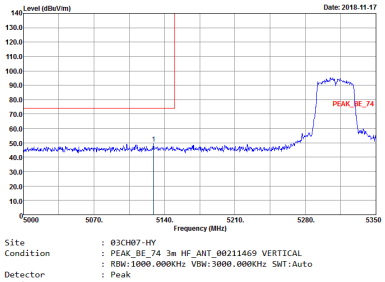
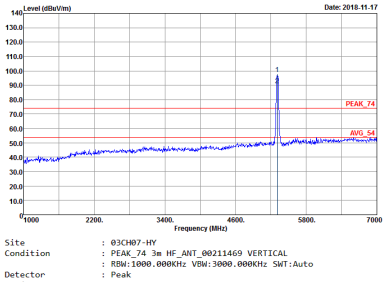
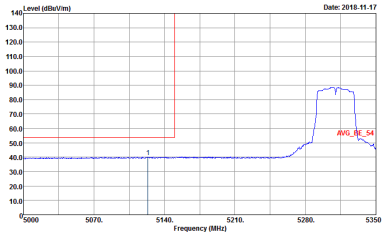
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

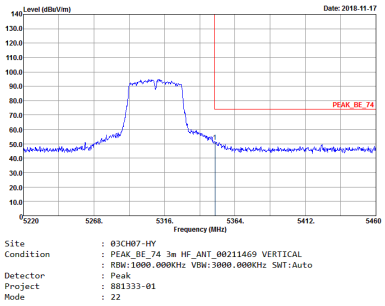
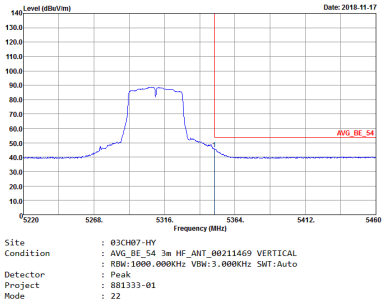
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

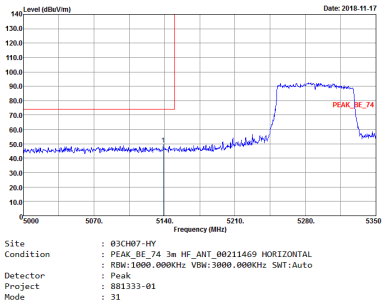
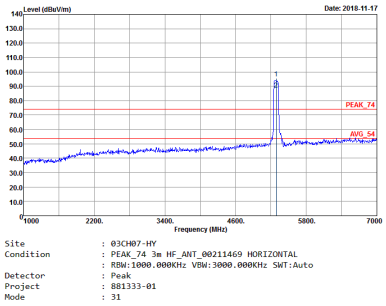
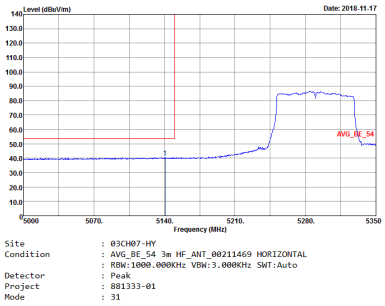
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

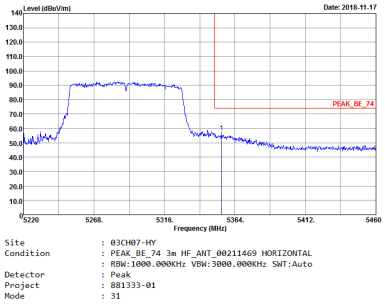
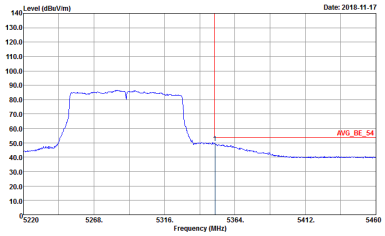
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

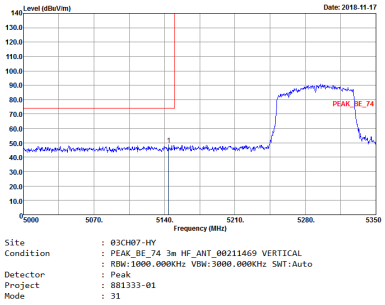
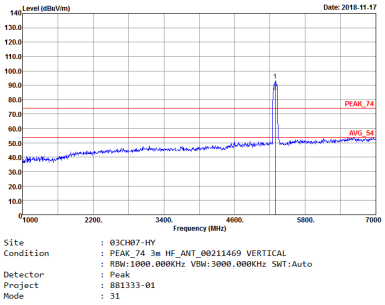
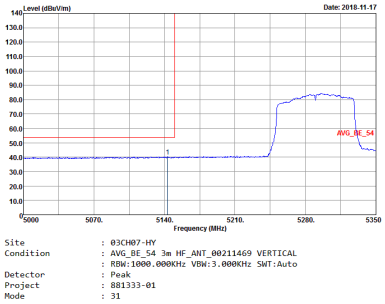
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 22	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 22
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 22	Left blank

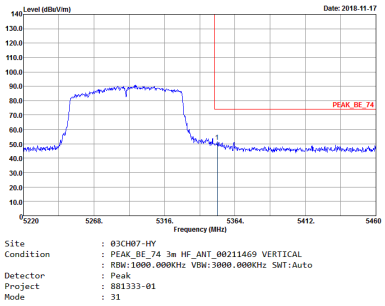
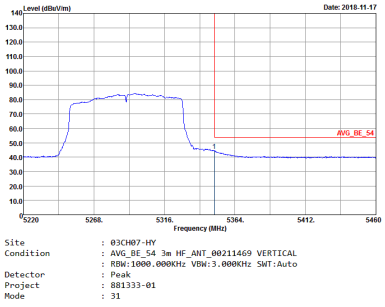
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

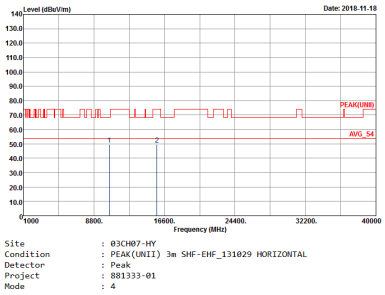
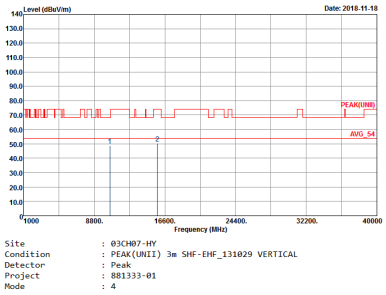
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

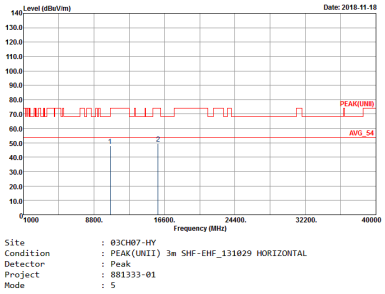
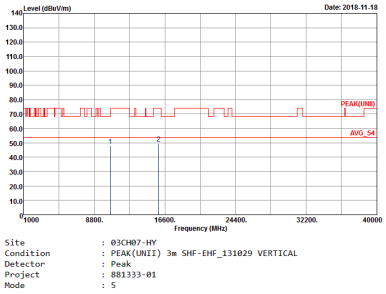
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 31	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 31	Left blank

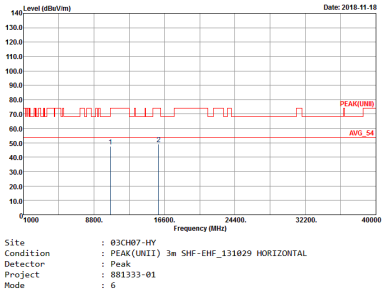
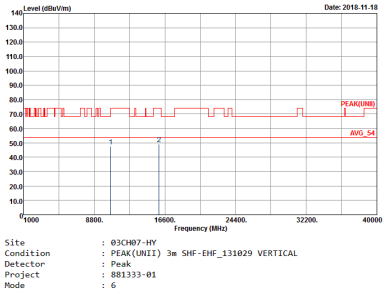
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 31	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 31
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 31	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

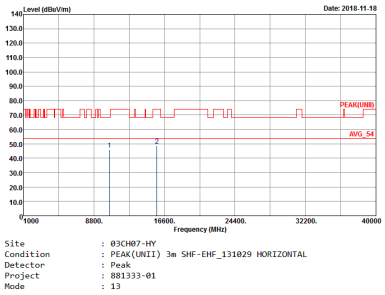
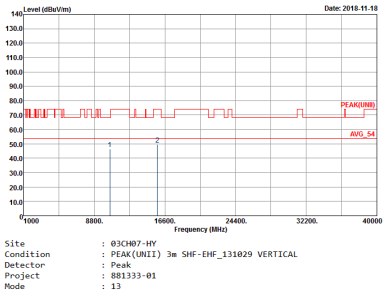
Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

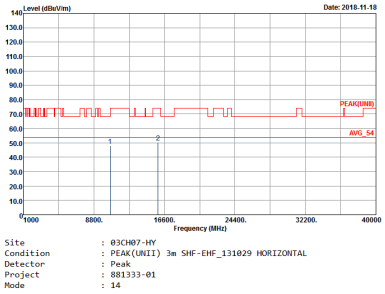
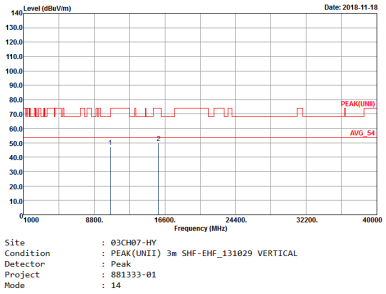
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

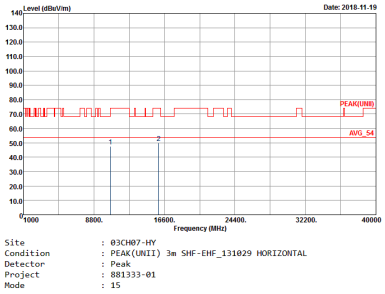
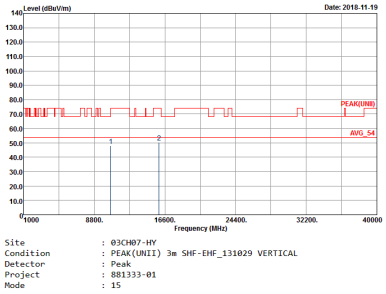
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

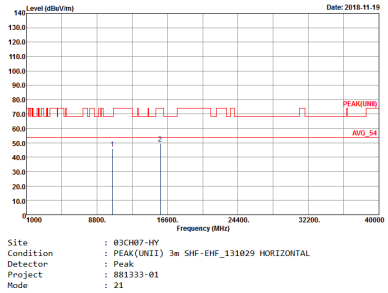
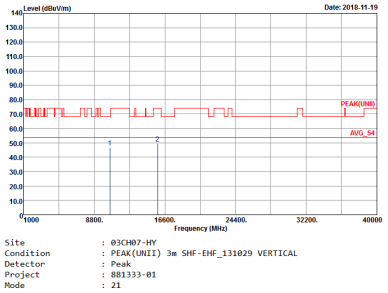
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

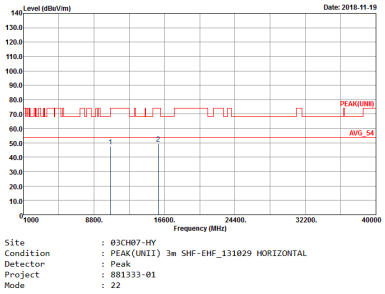
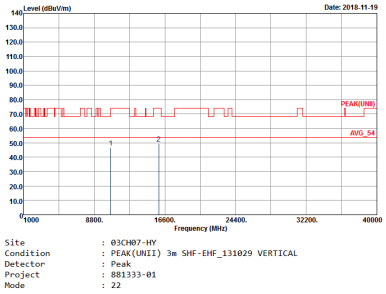
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

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

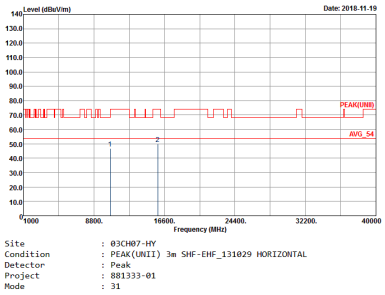
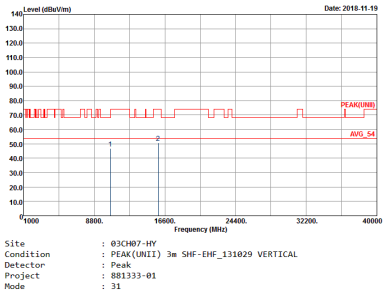
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

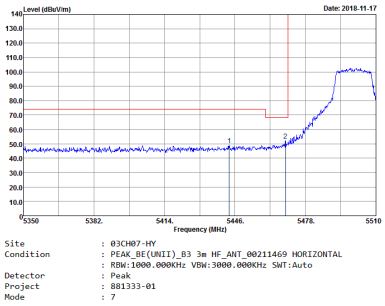
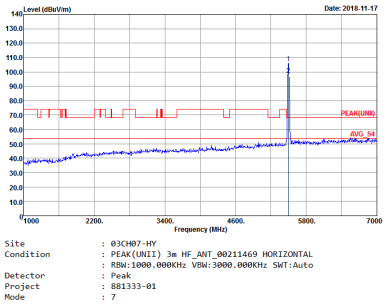
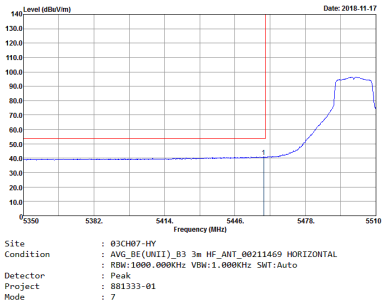
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

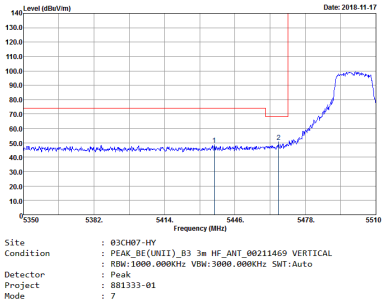
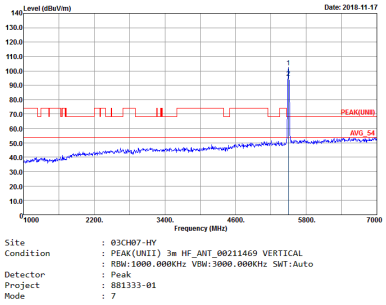
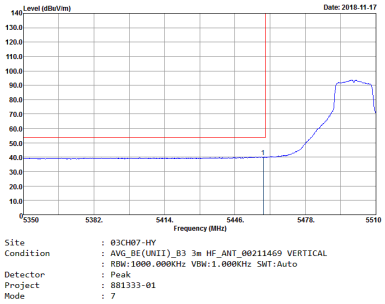
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

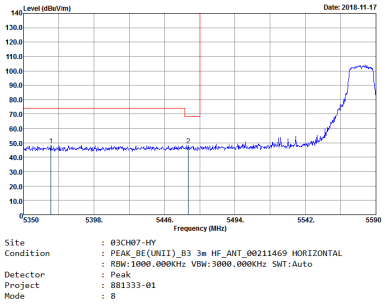
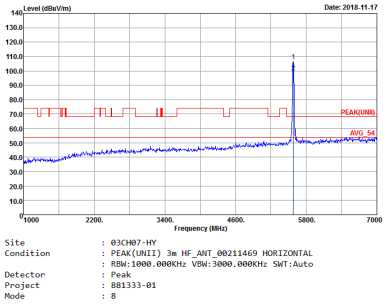
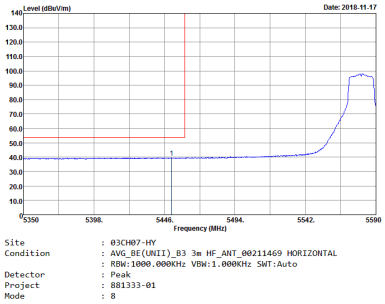
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

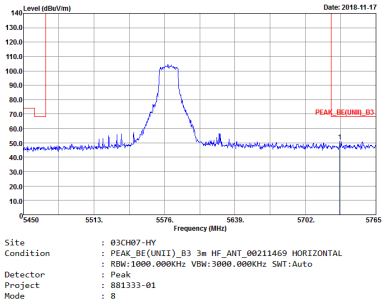
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak Avg.		

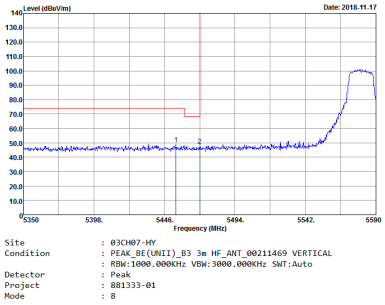
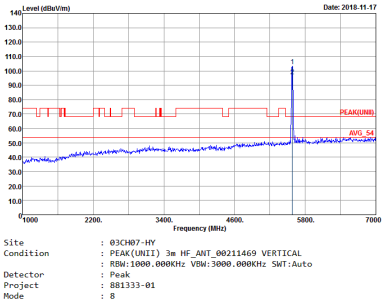
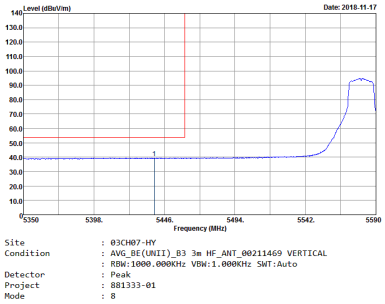
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

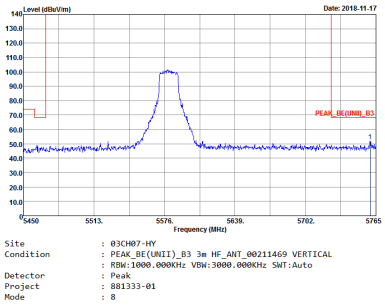
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

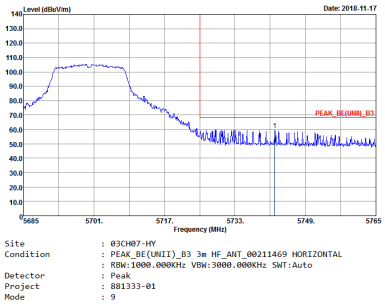
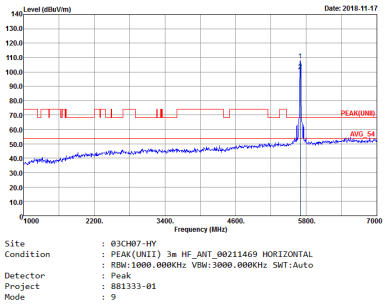
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

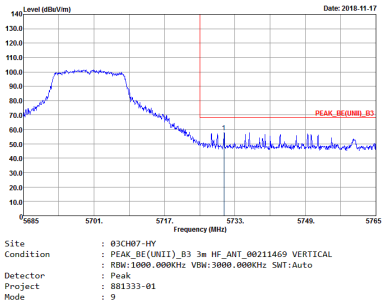
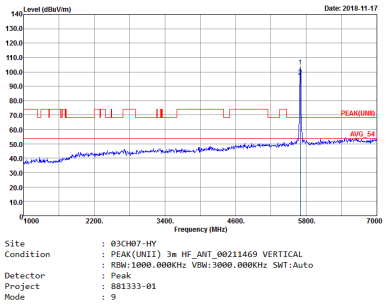
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 8	Left blank

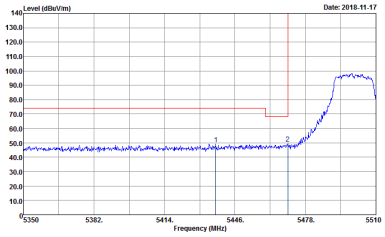
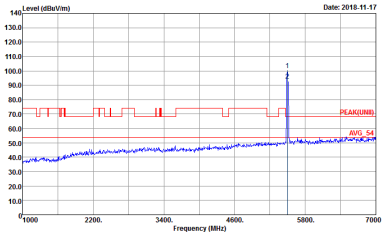
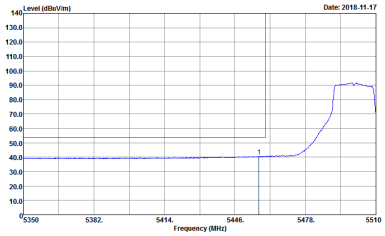
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 8	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 8	Left blank

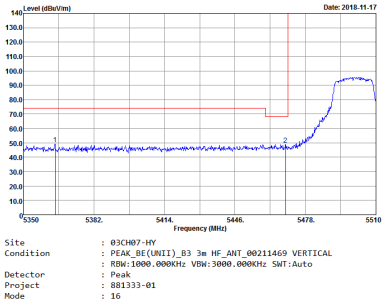
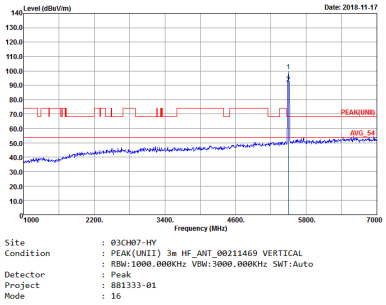
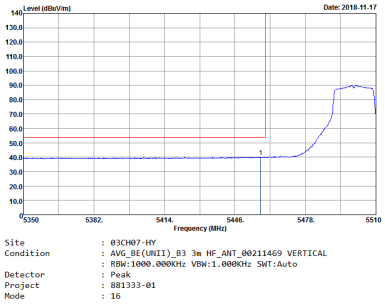
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 8	Left blank

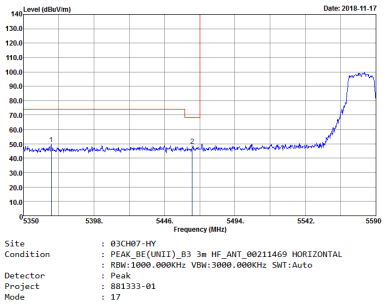
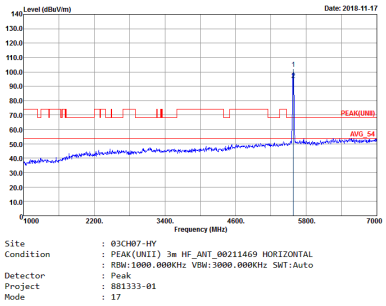
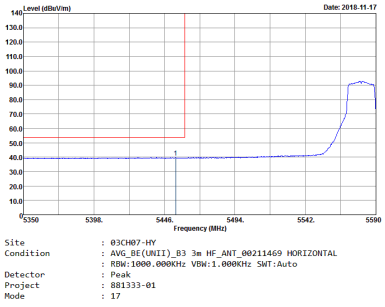
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

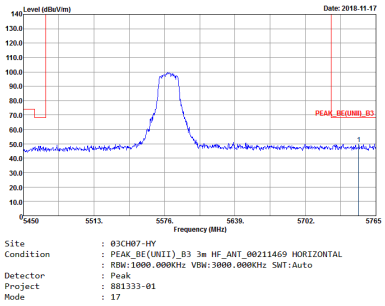
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

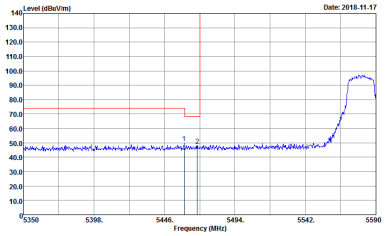
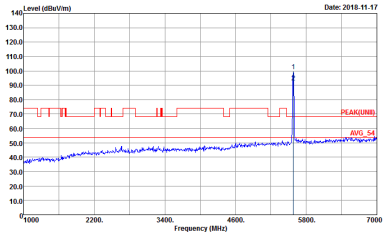
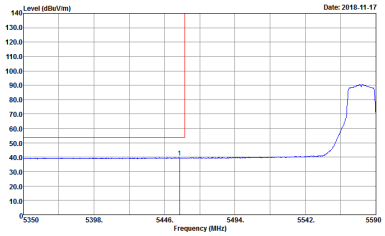
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

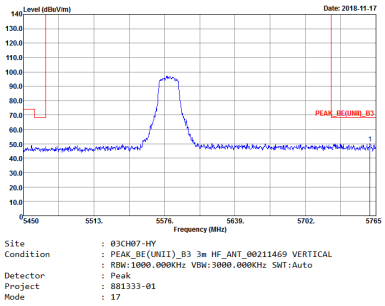
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

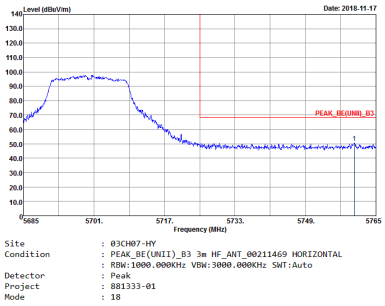
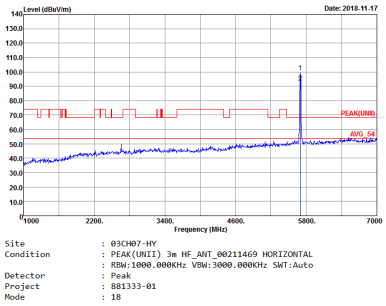
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 16	Left blank

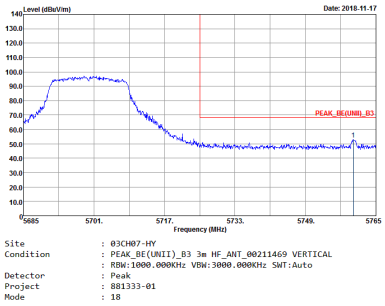
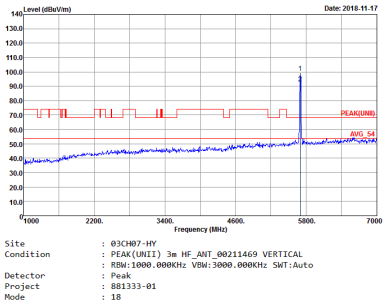
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 17	Left blank

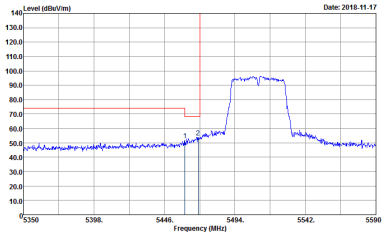
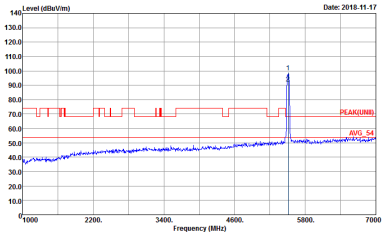
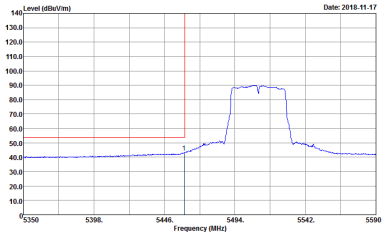
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 17	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 17	Left blank

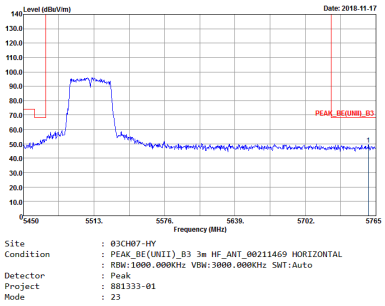
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 17	Left blank

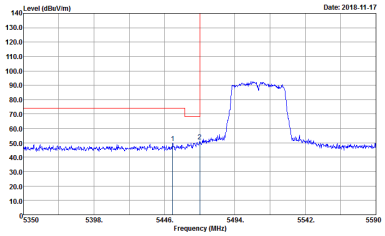
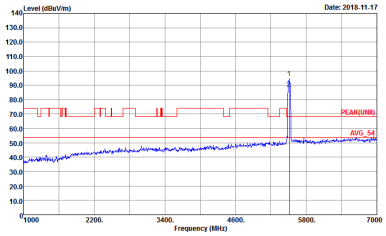
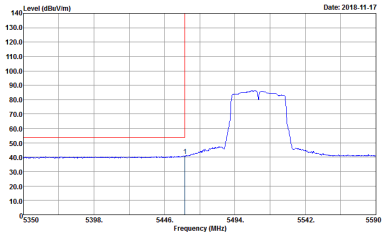
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

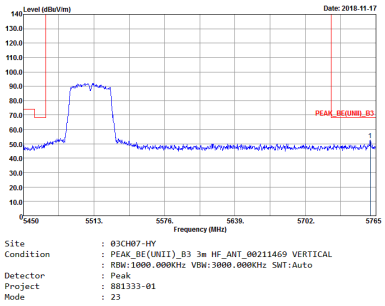
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

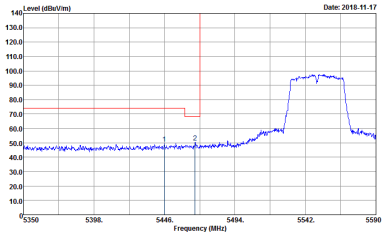
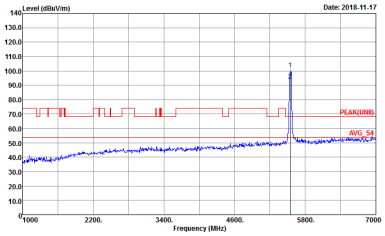
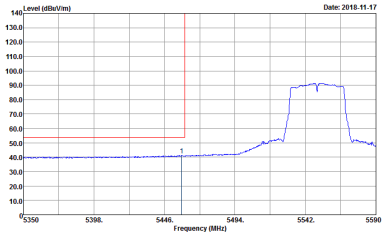
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

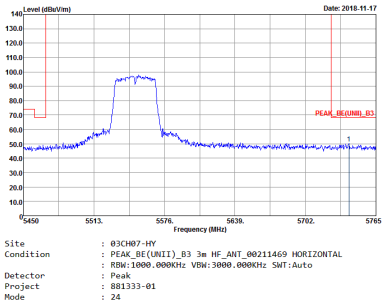
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

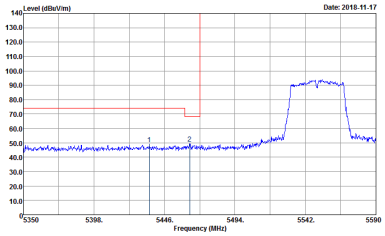
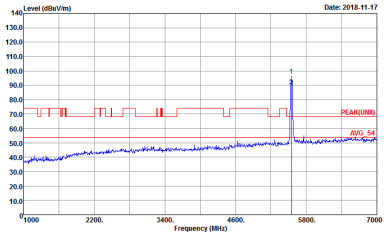
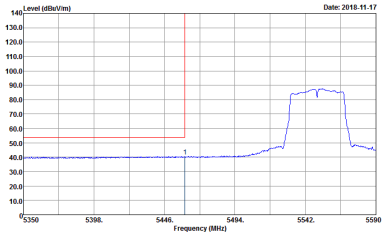
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 23	Left blank

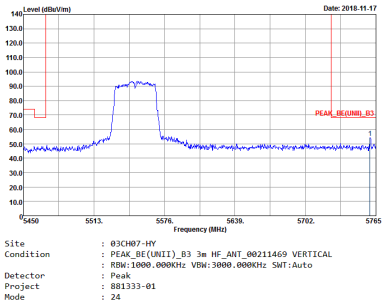
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

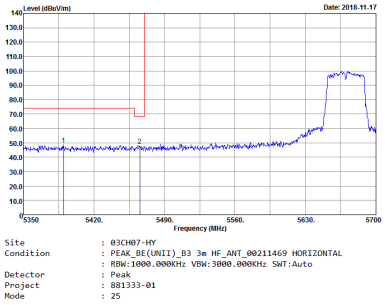
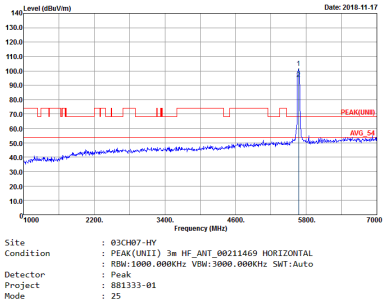
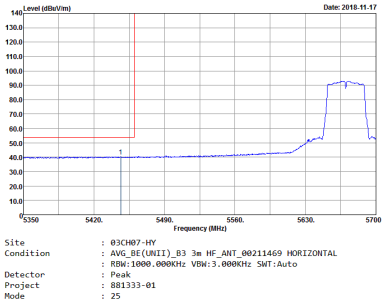
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 23	Left blank

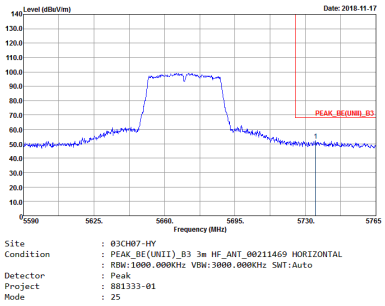
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	Left blank

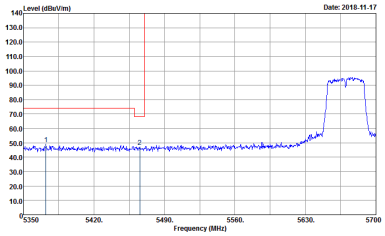
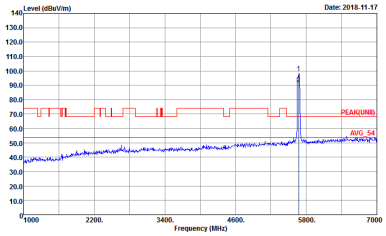
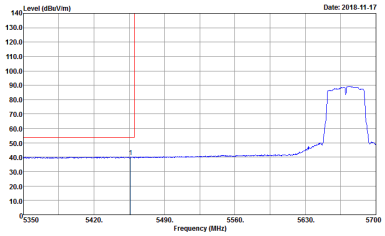
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	Left blank

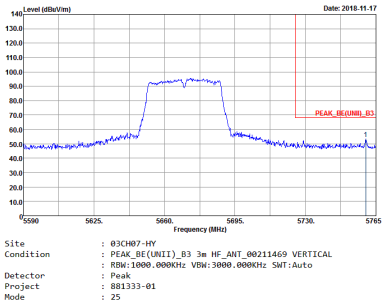
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 24	Left blank

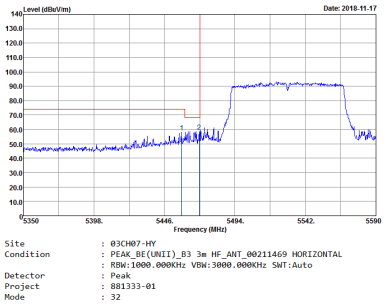
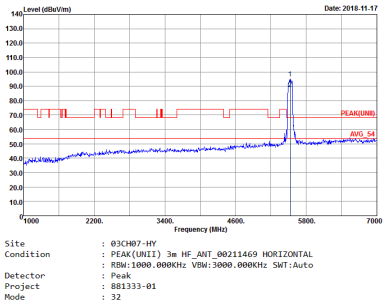
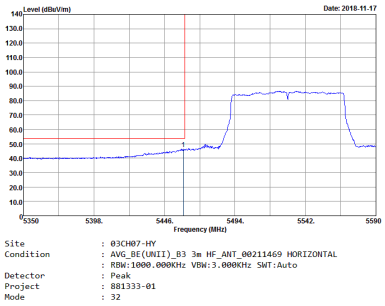
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

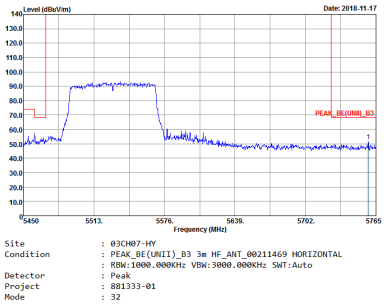
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 25	Left blank

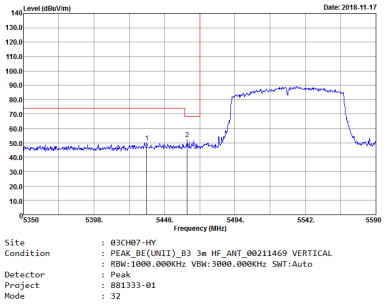
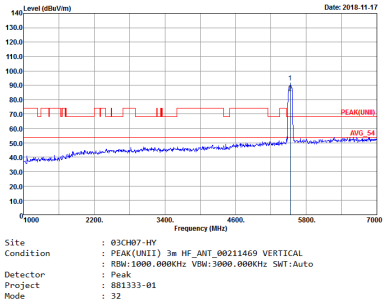
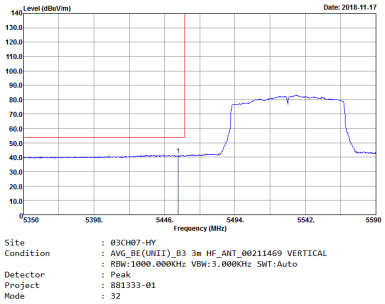
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 25
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 25	Left blank

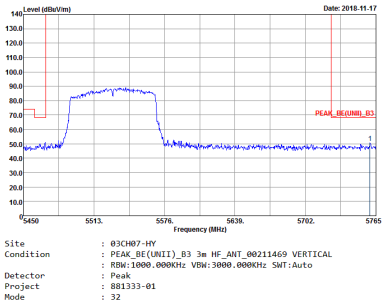
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 25	Left blank

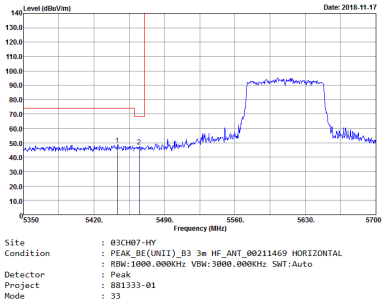
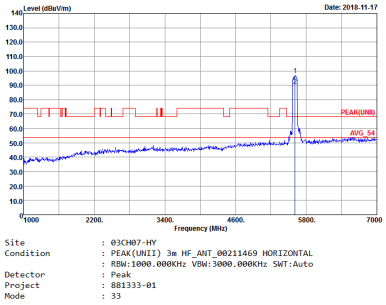
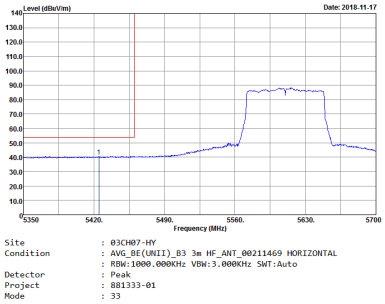
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

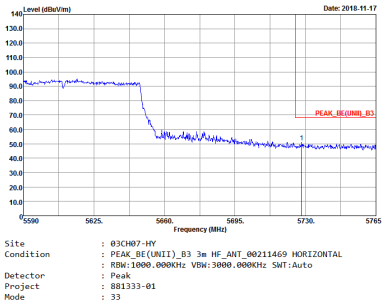
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

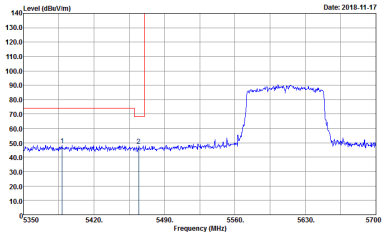
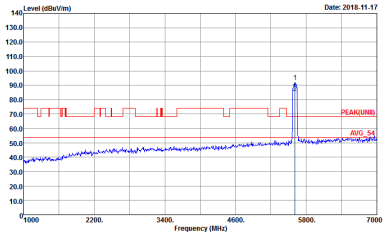
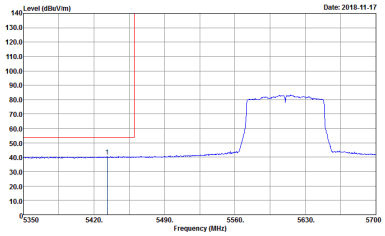
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 32	Left blank

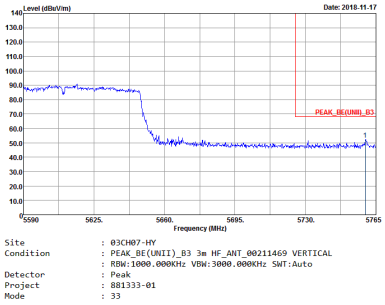
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 32	Left blank

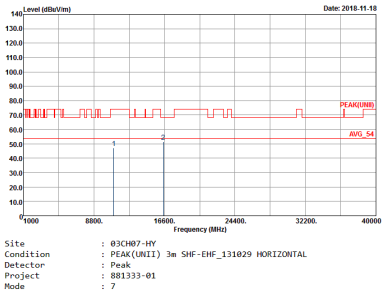
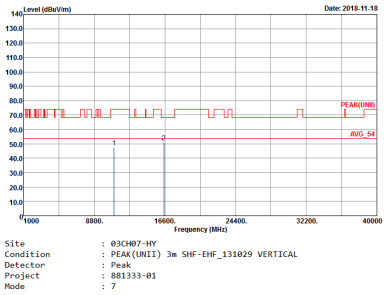
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

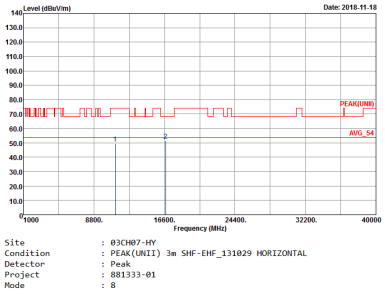
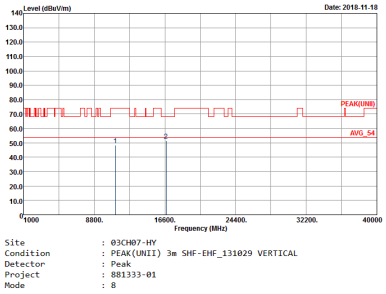
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 33	Left blank

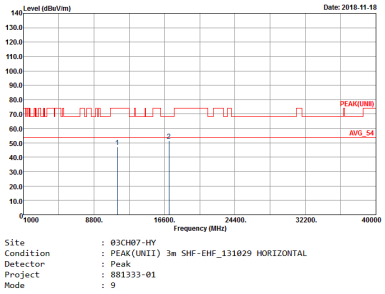
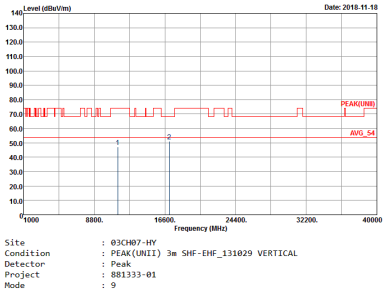
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 881333-01 Mode : 33	Left blank

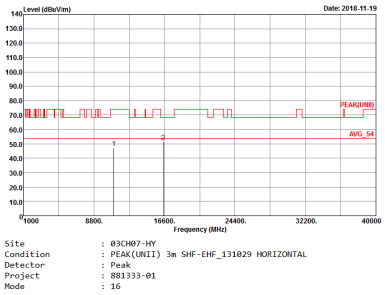
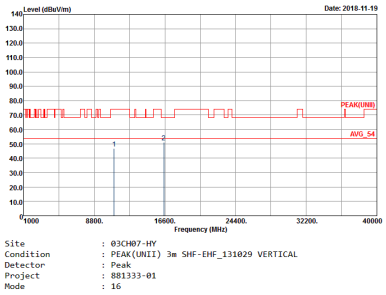
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

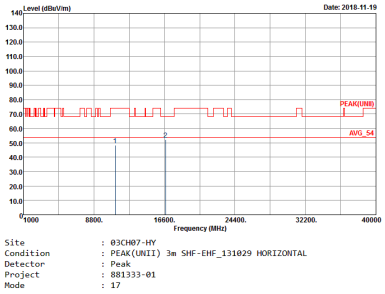
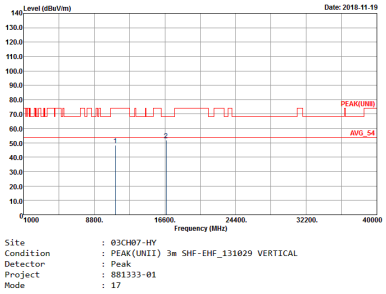
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

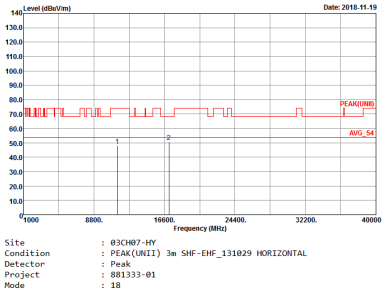
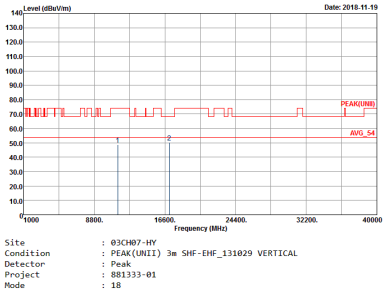
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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

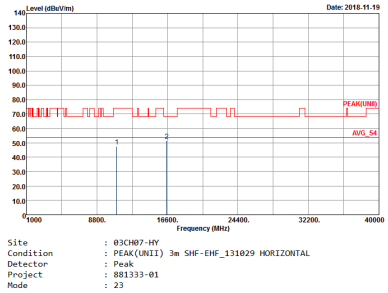
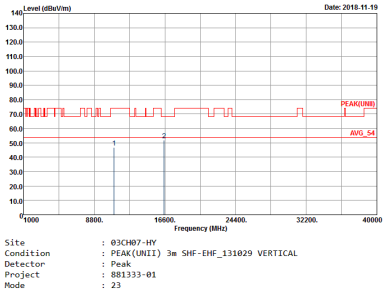
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

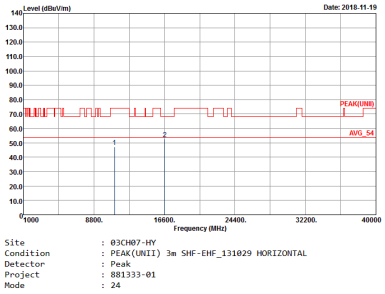
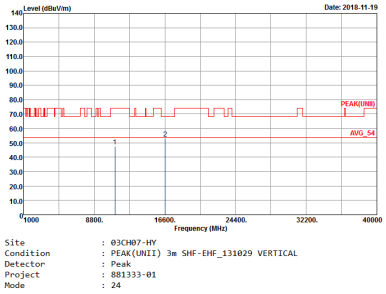
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

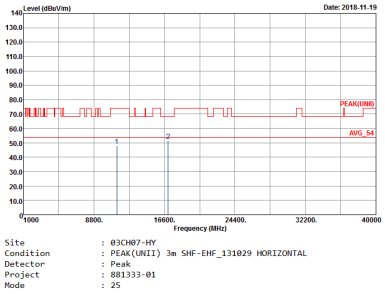
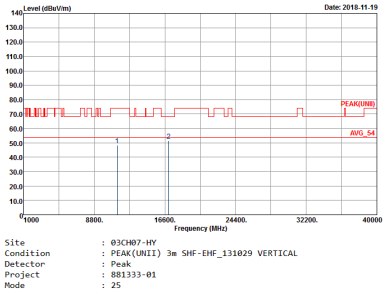
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

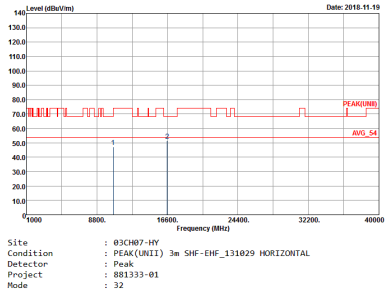
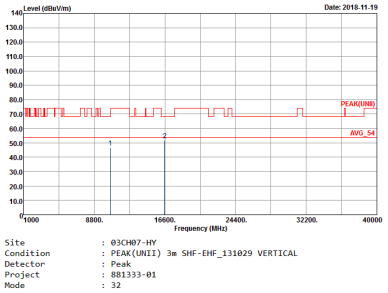
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

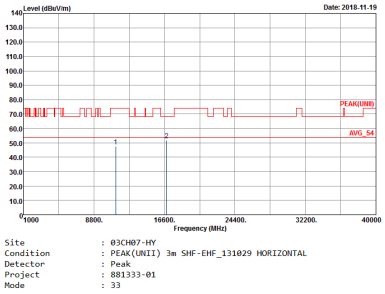
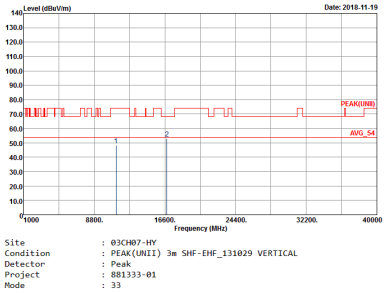
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 881333-01 Mode : 23	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 881333-01 Mode : 23

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

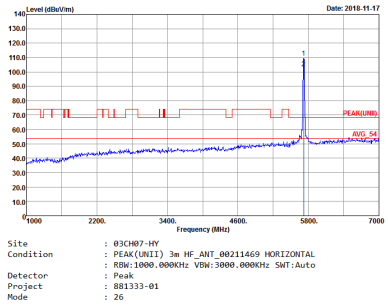
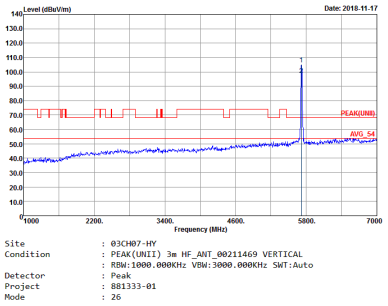
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

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

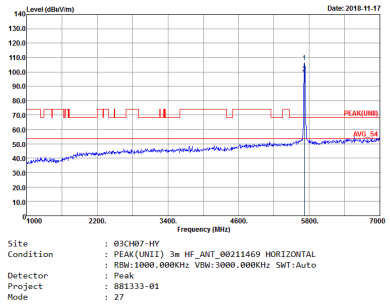
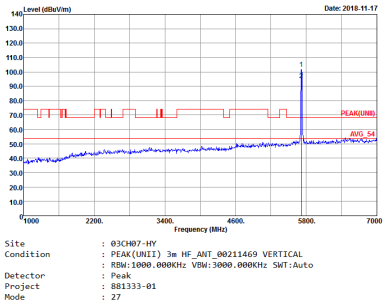
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1	Horizontal	Vertical
Peak Avg.		

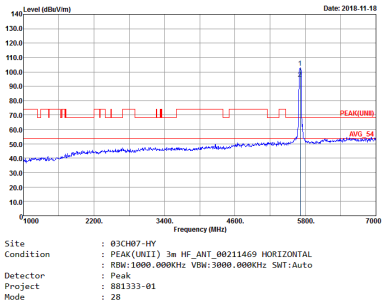
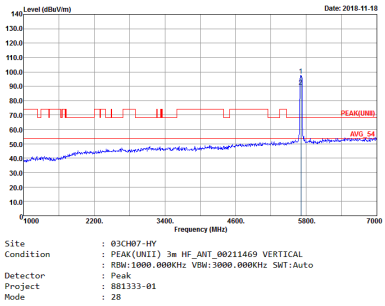
Band 3 - Straddle Channel
WIFI 802.11a (Fundamental @ 3m)

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

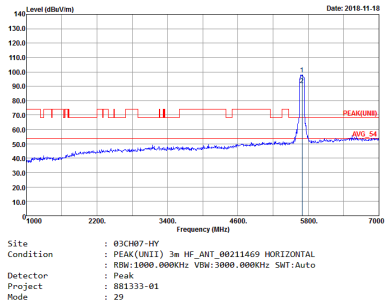
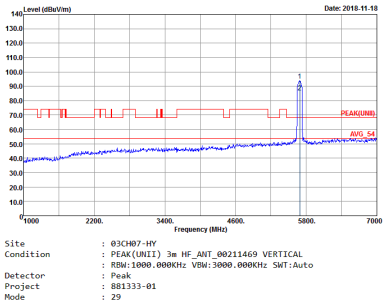
Band 3 – Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)

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

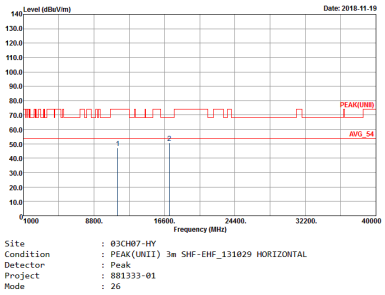
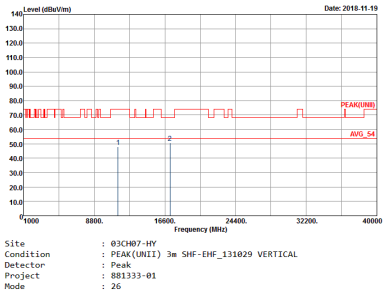
Band 3 – Straddle Channel
WIFI 802.11ac VHT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

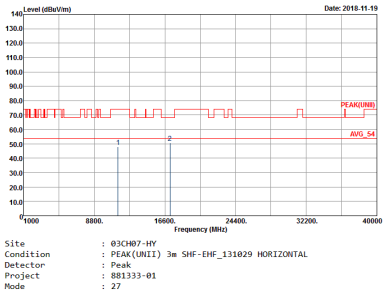
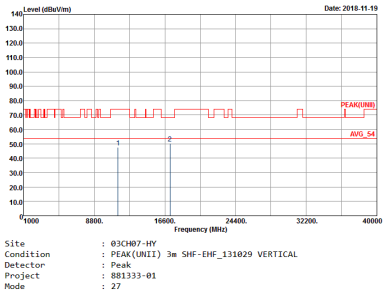
Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

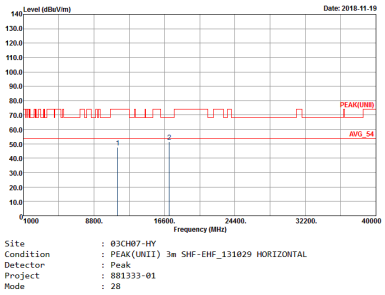
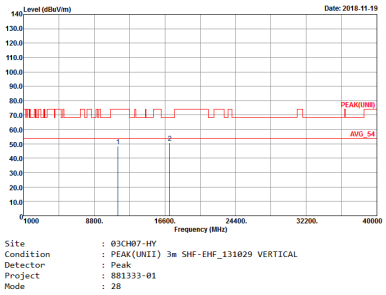
Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

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

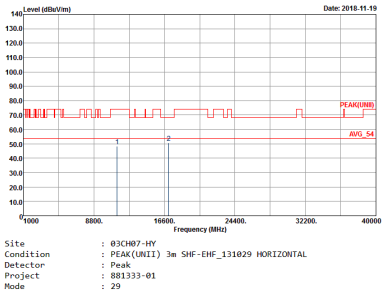
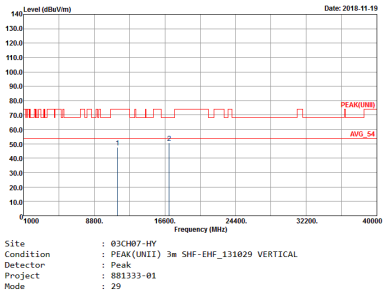
Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

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

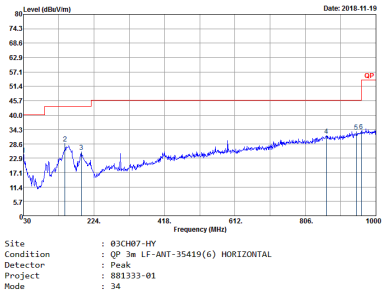
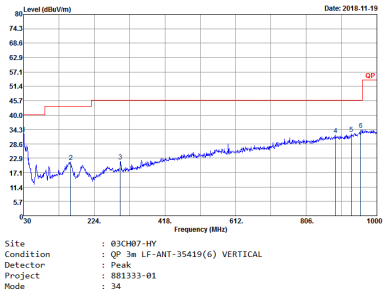
Band 3 – Straddle Channel
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

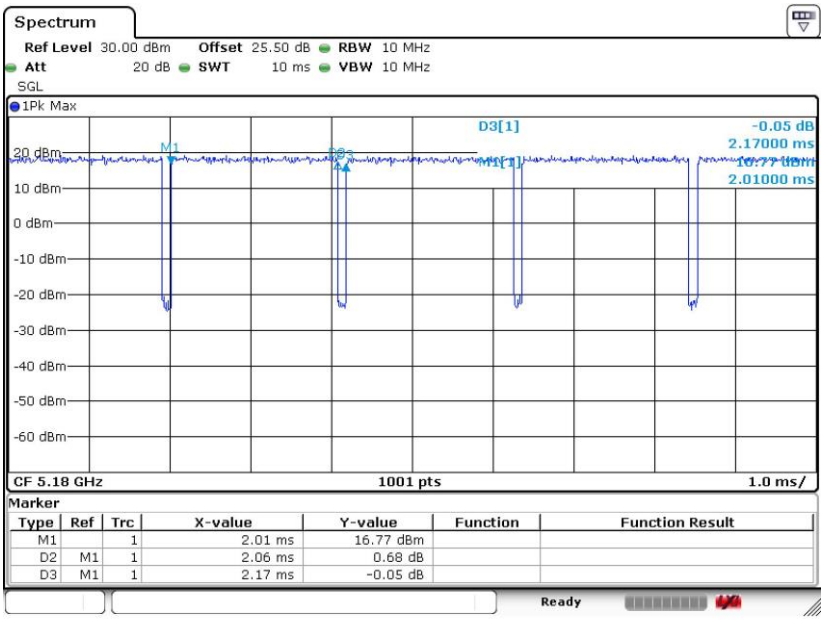
Emission below 1GHz
5GHz WIFI 802.11ac VHT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

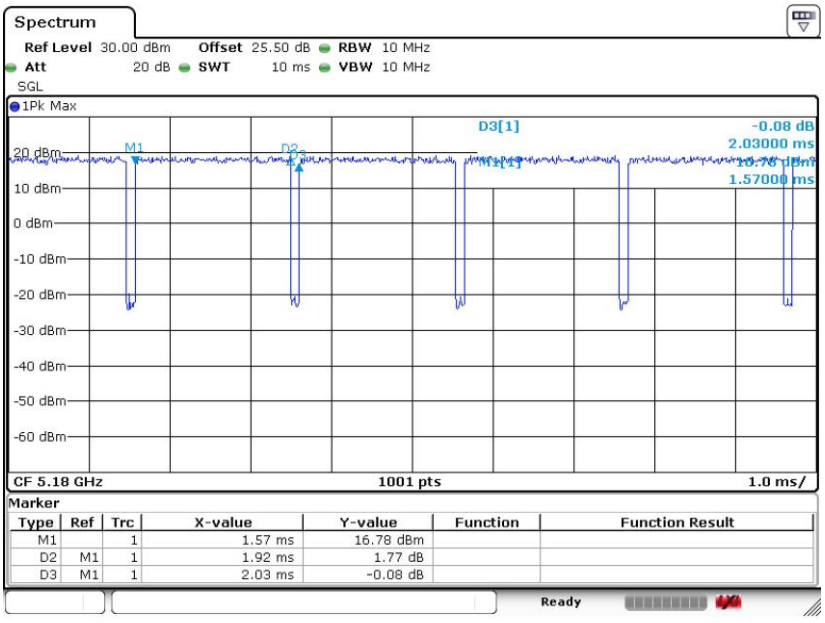
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	94.93	2060	0.49	1kHz	0.23
5GHz 802.11n HT20	94.58	1920	0.52	1kHz	0.24
5GHz 802.11n HT40	89.10	940	1.06	3kHz	0.50
5GHz 802.11ac VHT20	95.10	1940	0.52	1kHz	0.22
5GHz 802.11ac VHT40	90.09	955	1.05	3kHz	0.45
5GHz 802.11ac VHT80	88.70	738	1.36	3kHz	0.52

802.11a



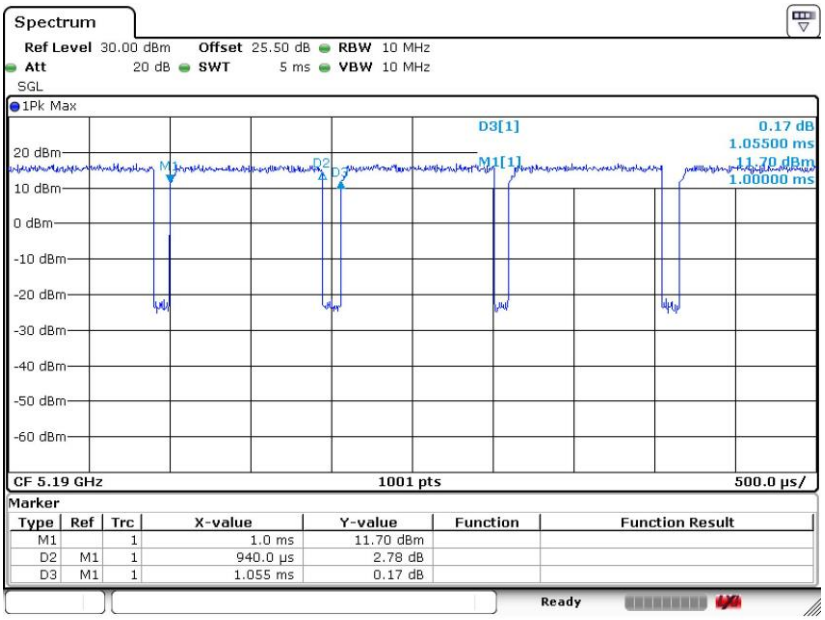
Date: 4.SEP.2018 09:45:10

802.11n HT20



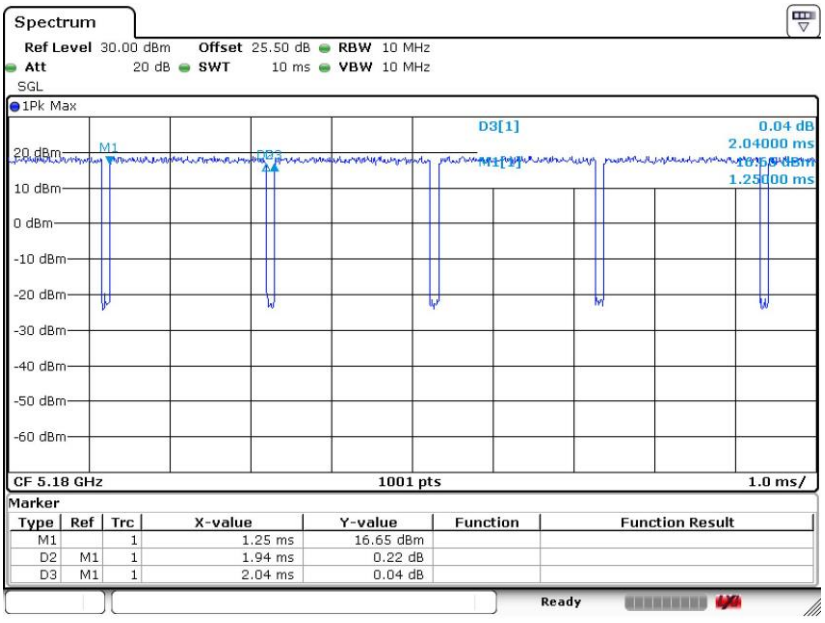
Date: 4.SEP.2018 09:46:51

802.11n HT40



Date: 4.SEP.2018 09:47:52

802.11ac VHT20



Date: 4.SEP.2018 09:49:10

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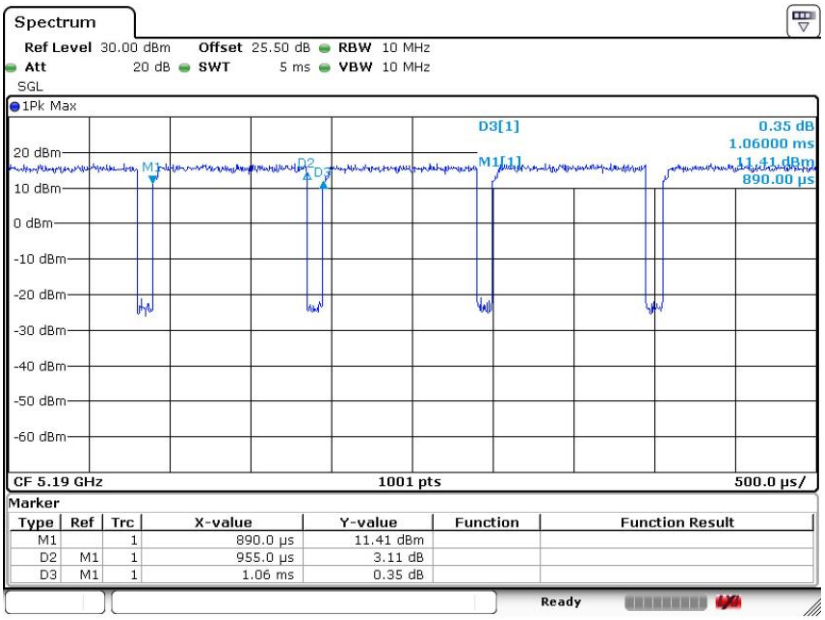

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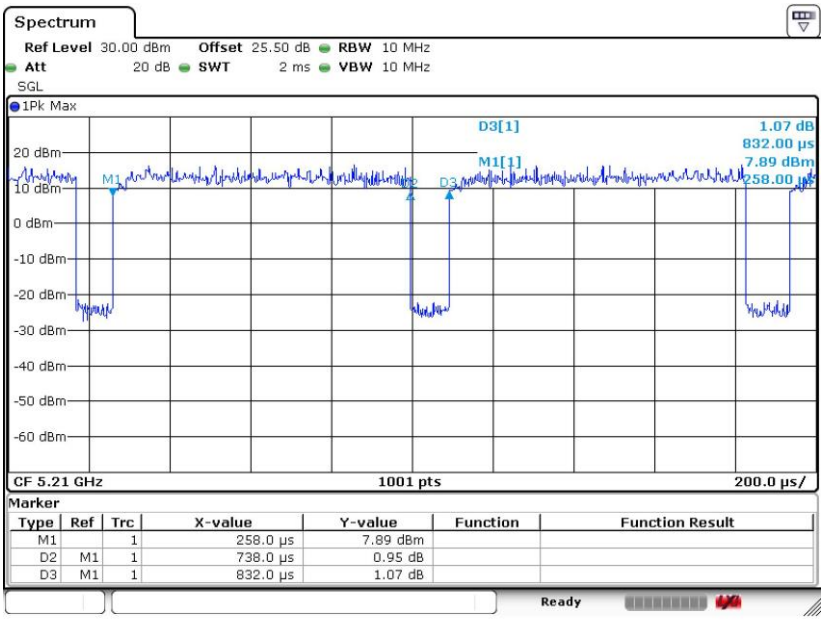

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THE END