



FCC RF Test Report

APPLICANT : HTC Corporation
EQUIPMENT : Smartphone
MODEL NAME : 2Q3F300
FCC ID : NM82Q3F300
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on May 23, 2017 and testing was completed on Jun. 25, 2017. 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

**SPORTON INTERNATIONAL INC.**

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR752311F	Rev. 01	Initial issue of report	Sep. 04, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 1.15 dB at 5353.200 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.30 dB at 17.982 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

HTC Corporation

No.23, Xinghua Rd., Taoyuan District, Taoyuan City, Taiwan 330

1.2 Manufacturer

HTC Corporation

1F, 6-3 Baoqiang Rd., Xindian District, New Taipei City, Taiwan 231

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, Ant+, and GPS

Product Specification subjective to this standard	
Sample 1	EUT with battery 1 and 1st PCB
Sample 2	EUT with battery 2 and 1st PCB
Sample 3	EUT with battery 1 and 2nd PCB
Antenna Type	WWAN: Fixed Internal Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/GLONASS/BDS: PIFA Antenna NFC: Loop Antenna

Remark:

1. There are 1st PCB and 2nd PCB, the hardware change are USB board, antenna board and speaker module. Regarding the differences, perform full RSE testing on sample 1 and sample 3.
2. For the LTE setting which controlled by software, there are two Skus of device. Sku 1 supports LTE category 9 (up to 450 Mbps), and Sku 2 support category 11 (up to 600 Mbps) and 256QAM downlink. Since the differences, we only performed on Sku 2 device.
3. All tests were performed with sample 1.

1.4 Modification of EUT

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

1.5 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH13-HY	

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

1.6 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 v01r04
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency 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

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 mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

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

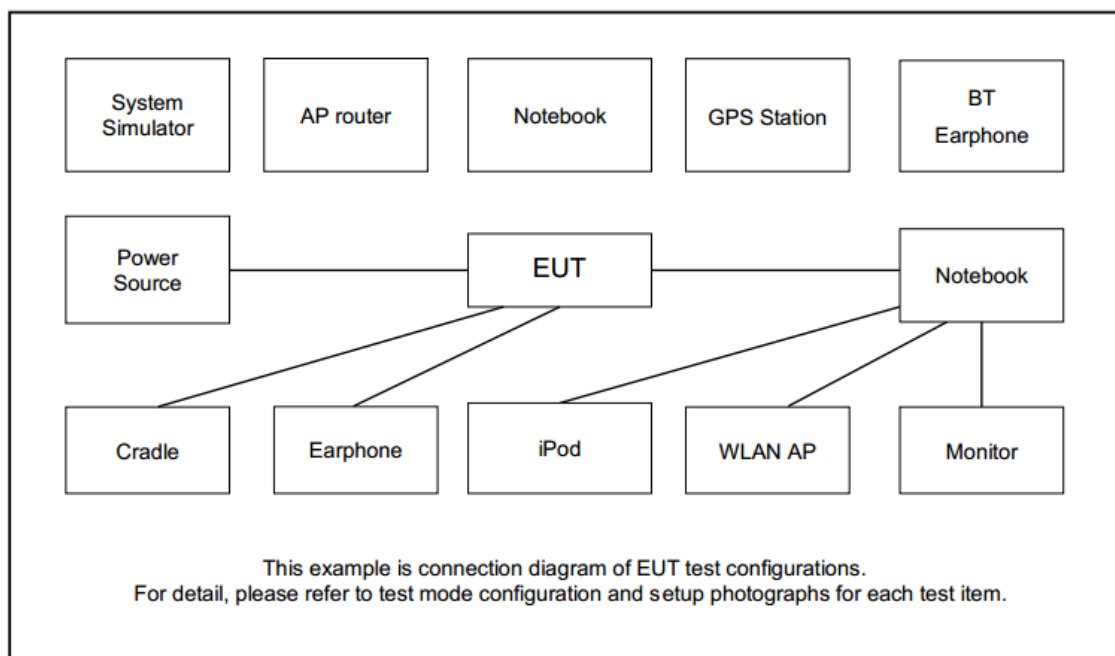
Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 7 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera (Front) + USB Cable 2 (Charging from Adapter 2)

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

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

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	-	-	-
M	Middle	42	58	106
H	High	-	-	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "QRCT" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving 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.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

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.

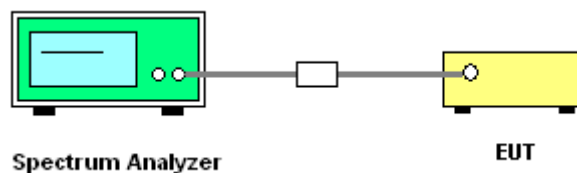
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. 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 1MHz and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
8. Measure and record the results in the test report.

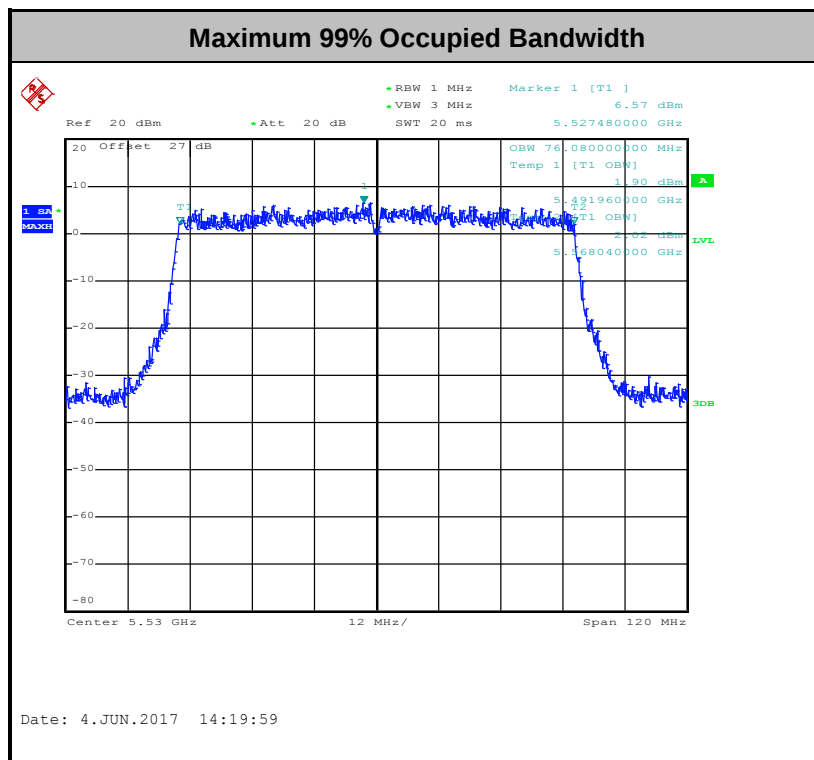
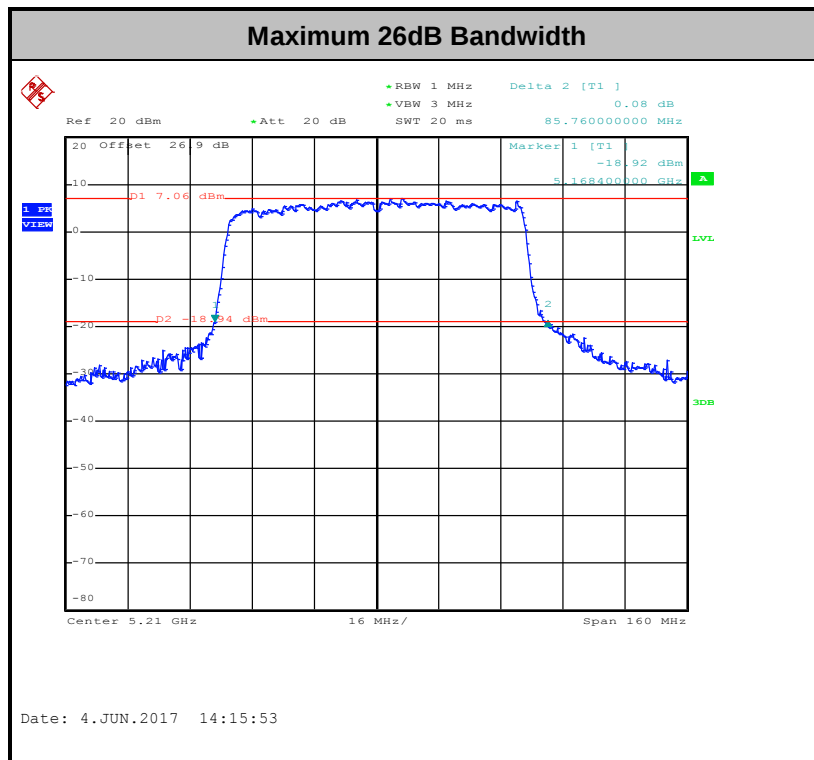
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.



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 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 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

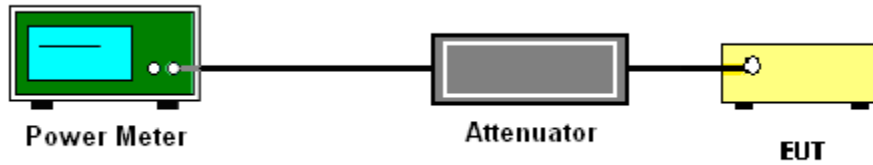
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

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.

3.2.4 Test Setup

For normal channel:



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 mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

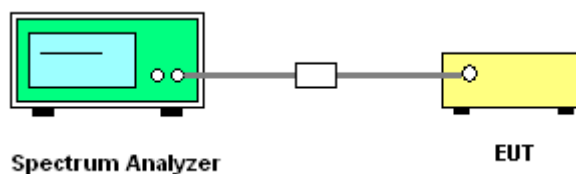
Section F) Maximum power spectral density.

Method SA-2

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

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 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.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

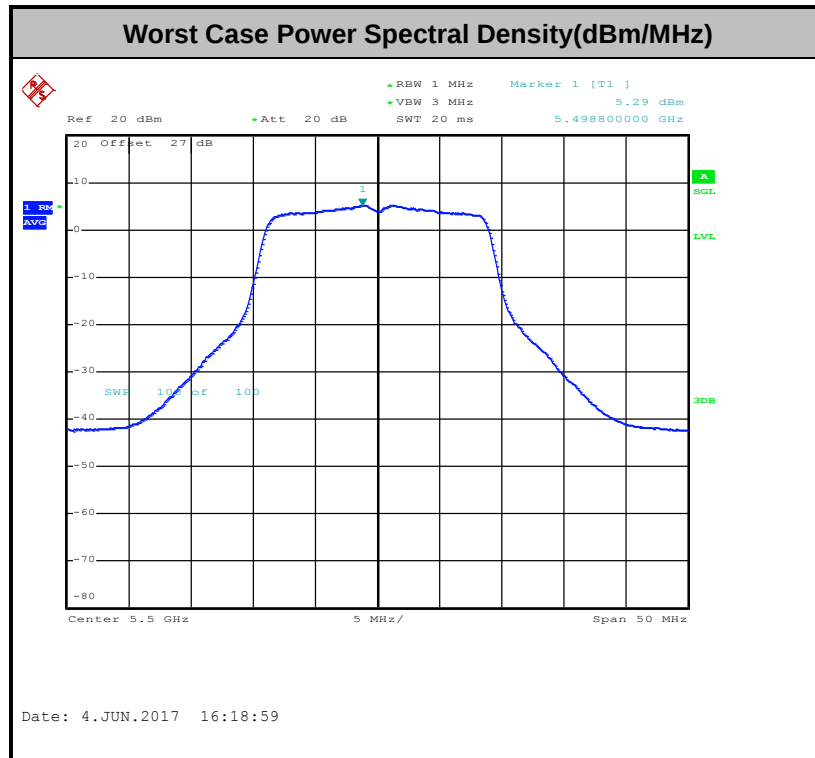
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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.

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



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

(3) KDB789033 D01 v01r04 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

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
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 $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

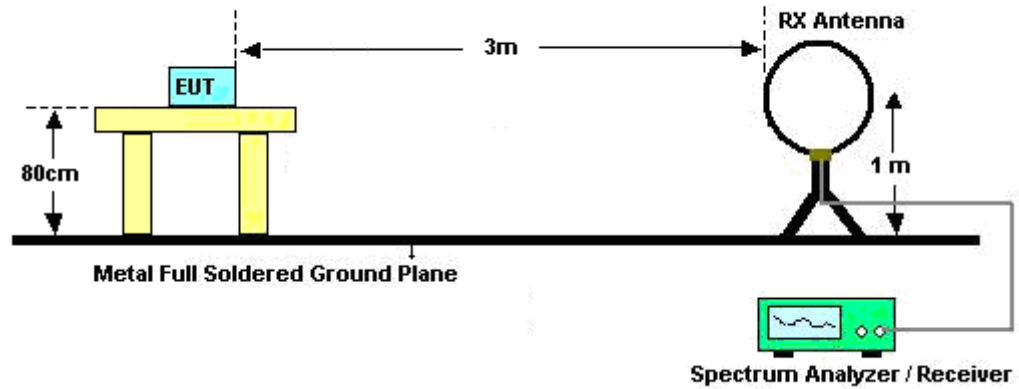
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



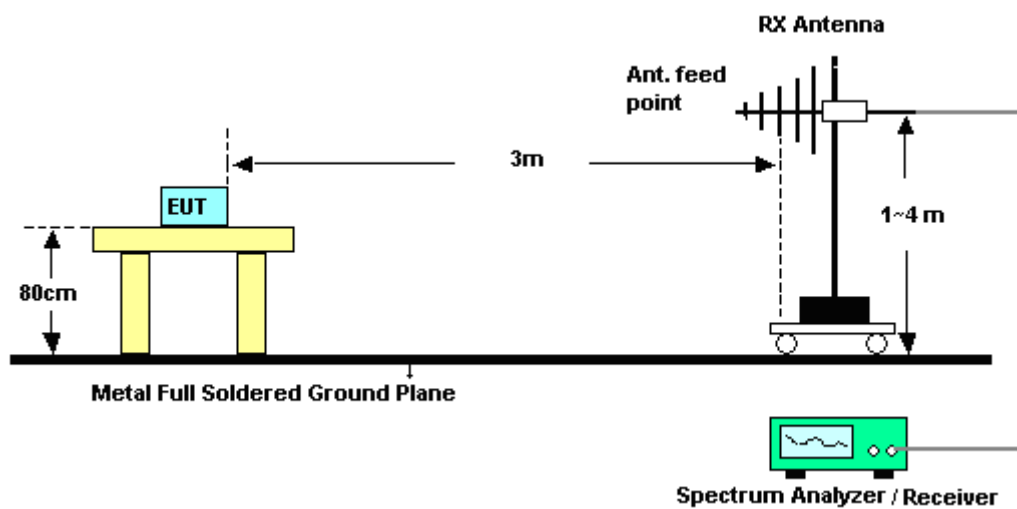
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

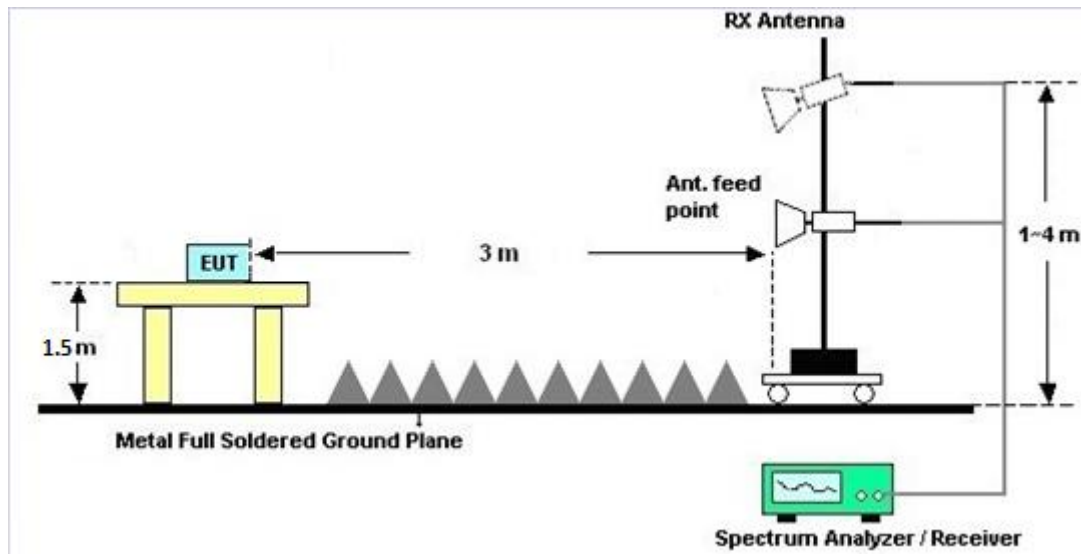
For radiated emissions below 30MHz



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.

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 Emission (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 (dB μ V)	
	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.

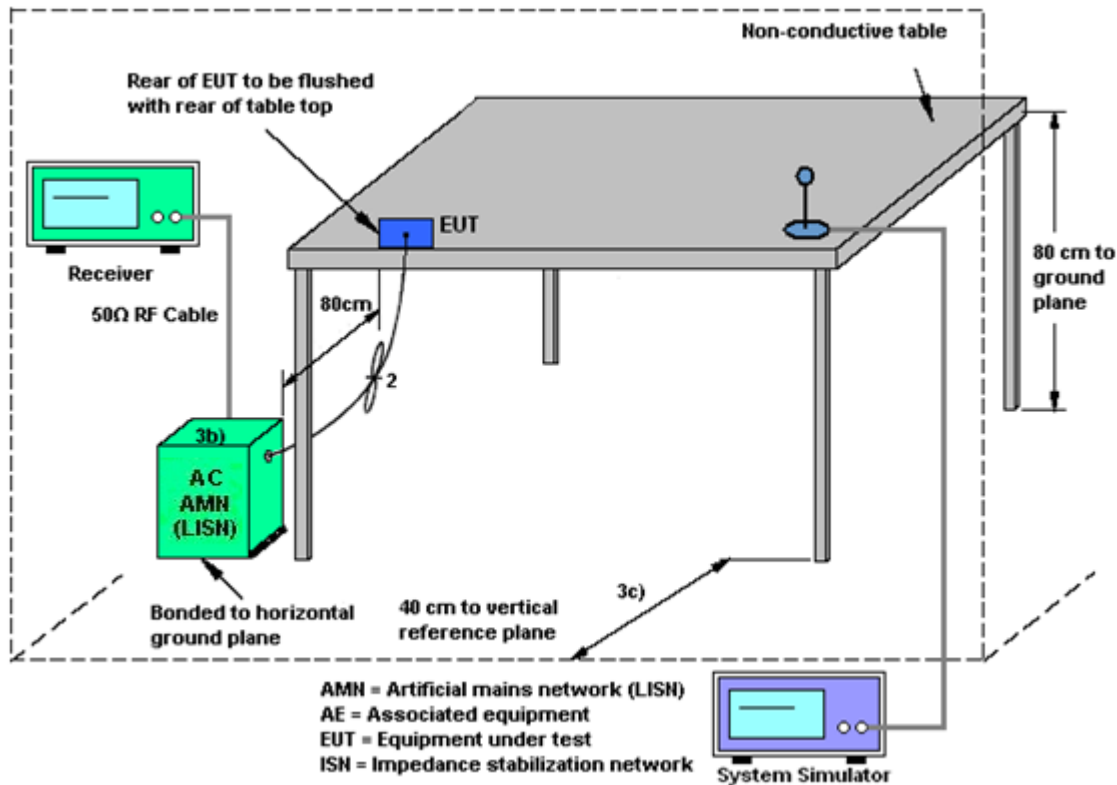
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 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



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

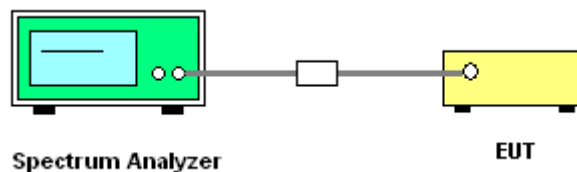
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.





3.7 Automatically Discontinue Transmission

3.7.1 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.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 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.



3.8 Antenna Requirements

3.8.1 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.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

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



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Jun. 01, 2017 ~ Jun. 04, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Jun. 01, 2017 ~ Jun. 04, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Jun. 01, 2017 ~ Jun. 04, 2017	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Jun. 01, 2017 ~ Jun. 04, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Jun. 01, 2017 ~ Jun. 04, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 25, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Jun. 25, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Jun. 25, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Jun. 25, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	May 15, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	May 14, 2019	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Jun. 16, 2017 ~ Jun. 19, 2017	Dec. 20, 2017	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&04	30MHz to 1GHz	Jan. 07, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	Jan. 06, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	May 02, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	May 01, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	May 21, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	TTA 1840-35-HG	1887435	18GHz ~ 40GHz	Oct. 13, 2016	Jun. 16, 2017 ~ Jun. 19, 2017	Oct. 12, 2017	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 09, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	Jan. 08, 2018	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 15, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	Mar. 14, 2018	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 16, 2017 ~ Jun. 19, 2017	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 16, 2017 ~ Jun. 19, 2017	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Jun. 16, 2017 ~ Jun. 19, 2017	Jan. 11, 2018	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Jun. 16, 2017 ~ Jun. 19, 2017	Nov. 07, 2017	Radiation (03CH13-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.30
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu/Bill Kuo	Temperature:	21~25	°C
Test Date:	2017/6/1~6/4	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)		
11a	6Mbps	1	36	5180	17.40	23.90	-	22.41		
11a	6Mbps	1	44	5220	17.45	24.20	-	22.42		
11a	6Mbps	1	48	5240	17.40	23.90	-	22.41		
HT20	MCS0	1	36	5180	18.60	24.50	-	22.70		
HT20	MCS0	1	44	5220	18.65	24.00	-	22.71		
HT20	MCS0	1	48	5240	18.60	24.10	-	22.70		
HT40	MCS0	1	38	5190	36.60	41.94	-	23.01		
HT40	MCS0	1	46	5230	36.50	42.12	-	23.01		
VHT80	MCS0	1	42	5210	75.96	85.76	-	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
11a	6Mbps	1	36	5180	0.29	15.94	24.00	-3.00		Pass
11a	6Mbps	1	44	5220	0.29	15.79	24.00	-3.00		Pass
11a	6Mbps	1	48	5240	0.29	15.77	24.00	-3.00		Pass
HT20	MCS0	1	36	5180	0.30	15.97	24.00	-3.00		Pass
HT20	MCS0	1	44	5220	0.30	15.85	24.00	-3.00		Pass
HT20	MCS0	1	48	5240	0.30	15.80	24.00	-3.00		Pass
HT40	MCS0	1	38	5190	0.58	15.78	24.00	-3.00		Pass
HT40	MCS0	1	46	5230	0.58	15.98	24.00	-3.00		Pass
VHT20	MCS0	1	36	5180	0.28	15.95	24.00	-3.00		Pass
VHT20	MCS0	1	44	5220	0.28	15.83	24.00	-3.00		Pass
VHT20	MCS0	1	48	5240	0.28	15.78	24.00	-3.00		Pass
VHT40	MCS0	1	38	5190	0.48	15.73	24.00	-3.00		Pass
VHT40	MCS0	1	46	5230	0.48	15.96	24.00	-3.00		Pass
VHT80	MCS0	1	42	5210	0.70	16.53	24.00	-3.00		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.29	4.59	11.00	-3.00		Pass
11a	6Mbps	1	44	5220	0.29	4.48	11.00	-3.00		Pass
11a	6Mbps	1	48	5240	0.29	4.56	11.00	-3.00		Pass
HT20	MCS0	1	36	5180	0.30	4.31	11.00	-3.00		Pass
HT20	MCS0	1	44	5220	0.30	4.51	11.00	-3.00		Pass
HT20	MCS0	1	48	5240	0.30	4.81	11.00	-3.00		Pass
HT40	MCS0	1	38	5190	0.58	1.07	11.00	-3.00		Pass
HT40	MCS0	1	46	5230	0.58	1.59	11.00	-3.00		Pass
VHT80	MCS0	1	42	5210	0.70	-2.02	11.00	-3.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	N _{TX}	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
11a	6M bps	1	52	5260	17.35	24.00	23.39	29.39	23.98	
11a	6M bps	1	60	5300	17.45	23.90	23.42	29.42	23.98	
11a	6M bps	1	64	5320	17.50	24.10	23.43	29.43	23.98	
HT20	MCS 0	1	52	5260	18.60	24.40	23.70	29.70	23.98	
HT20	MCS 0	1	60	5300	18.75	24.10	23.73	29.73	23.98	
HT20	MCS 0	1	64	5320	18.60	24.00	23.70	29.70	23.98	
HT40	MCS 0	1	54	5270	36.50	41.94	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.60	41.58	23.98	30.00	23.98	
VHT80	MCS 0	1	58	5290	75.96	83.84	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.29	15.88	23.98	-2.20	26.99	Pass
11a	6M bps	1	60	5300	0.29	15.91	23.98	-2.20	26.99	Pass
11a	6M bps	1	64	5320	0.29	15.94	23.98	-2.20	26.99	Pass
HT20	MCS 0	1	52	5260	0.30	15.90	23.98	-2.20	26.99	Pass
HT20	MCS 0	1	60	5300	0.30	15.93	23.98	-2.20	26.99	Pass
HT20	MCS 0	1	64	5320	0.30	15.99	23.98	-2.20	26.99	Pass
HT40	MCS 0	1	54	5270	0.58	15.88	23.98	-2.20	26.99	Pass
HT40	MCS 0	1	62	5310	0.58	15.90	23.98	-2.20	26.99	Pass
VHT20	MCS 0	1	52	5260	0.28	15.89	23.98	-2.20	26.99	Pass
VHT20	MCS 0	1	60	5300	0.28	15.92	23.98	-2.20	26.99	Pass
VHT20	MCS 0	1	64	5320	0.28	15.98	23.98	-2.20	26.99	Pass
VHT40	MCS 0	1	54	5270	0.48	15.78	23.98	-2.20	26.99	Pass
VHT40	MCS 0	1	62	5310	0.48	15.81	23.98	-2.20	26.99	Pass
VHT80	MCS 0	1	58	5290	0.70	16.50	23.98	-2.20	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.29	4.63	11.00	-2.20		Pass
11a	6M bps	1	60	5300	0.29	4.45	11.00	-2.20		Pass
11a	6M bps	1	64	5320	0.29	4.33	11.00	-2.20		Pass
HT20	MCS 0	1	52	5260	0.30	4.78	11.00	-2.20		Pass
HT20	MCS 0	1	60	5300	0.30	4.62	11.00	-2.20		Pass
HT20	MCS 0	1	64	5320	0.30	4.59	11.00	-2.20		Pass
HT40	MCS 0	1	54	5270	0.58	1.13	11.00	-2.20		Pass
HT40	MCS 0	1	62	5310	0.58	0.97	11.00	-2.20		Pass
VHT80	MCS 0	1	58	5290	0.70	-1.56	11.00	-2.20		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	N _{TX}	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
11a	6M bps	1	100	5500	17.40	24.10	23.41	29.41	23.98	
11a	6M bps	1	116	5580	17.40	24.00	23.41	29.41	23.98	
11a	6M bps	1	140	5700	17.45	23.90	23.42	29.42	23.98	
HT20	MCS 0	1	100	5500	18.60	23.90	23.70	29.70	23.98	
HT20	MCS 0	1	116	5580	18.60	24.40	23.70	29.70	23.98	
HT20	MCS 0	1	140	5700	18.55	24.00	23.68	29.68	23.98	
HT40	MCS 0	1	102	5510	36.60	41.58	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.60	41.94	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.60	42.12	23.98	30.00	23.98	
VHT80	MCS 0	1	106	5530	76.08	83.52	23.98	30.00	23.98	
VHT80	MCS 0	1	122	5610	75.84	83.52	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.29	15.95	23.98	-1.50	26.99	Pass
11a	6M bps	1	116	5580	0.29	15.79	23.98	-1.50	26.99	Pass
11a	6M bps	1	140	5700	0.29	15.74	23.98	-1.50	26.99	Pass
HT20	MCS 0	1	100	5500	0.30	15.97	23.98	-1.50	26.99	Pass
HT20	MCS 0	1	116	5580	0.30	15.94	23.98	-1.50	26.99	Pass
HT20	MCS 0	1	140	5700	0.30	15.80	23.98	-1.50	26.99	Pass
HT40	MCS 0	1	102	5510	0.58	15.83	23.98	-1.50	26.99	Pass
HT40	MCS 0	1	110	5550	0.58	15.71	23.98	-1.50	26.99	Pass
HT40	MCS 0	1	134	5670	0.58	15.68	23.98	-1.50	26.99	Pass
VHT20	MCS 0	1	100	5500	0.28	15.96	23.98	-1.50	26.99	Pass
VHT20	MCS 0	1	116	5580	0.28	15.88	23.98	-1.50	26.99	Pass
VHT20	MCS 0	1	140	5700	0.28	15.78	23.98	-1.50	26.99	Pass
VHT40	MCS 0	1	102	5510	0.48	15.72	23.98	-1.50	26.99	Pass
VHT40	MCS 0	1	110	5550	0.48	15.68	23.98	-1.50	26.99	Pass
VHT40	MCS 0	1	134	5670	0.48	15.65	23.98	-1.50	26.99	Pass
VHT80	MCS 0	1	106	5530	0.70	16.61	23.98	-1.50	26.99	Pass
VHT80	MCS 0	1	122	5610	0.70	16.59	23.98	-1.50	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.29	5.40	11.00	-1.50		Pass
11a	6M bps	1	116	5580	0.29	5.33	11.00	-1.50		Pass
11a	6M bps	1	140	5700	0.29	4.07	11.00	-1.50		Pass
HT20	MCS 0	1	100	5500	0.30	5.59	11.00	-1.50		Pass
HT20	MCS 0	1	116	5580	0.30	5.59	11.00	-1.50		Pass
HT20	MCS 0	1	140	5700	0.30	4.10	11.00	-1.50		Pass
HT40	MCS 0	1	102	5510	0.58	1.70	11.00	-1.50		Pass
HT40	MCS 0	1	110	5550	0.58	1.62	11.00	-1.50		Pass
HT40	MCS 0	1	134	5670	0.58	0.56	11.00	-1.50		Pass
VHT80	MCS 0	1	106	5530	0.70	-1.50	11.00	-1.50		Pass
VHT80	MCS 0	1	122	5610	0.70	-1.71	11.00	-1.50		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	50	3.85	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.4	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.6	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.85	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	50	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.6	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.85	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	50	3.85	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.4	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.6	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.85	



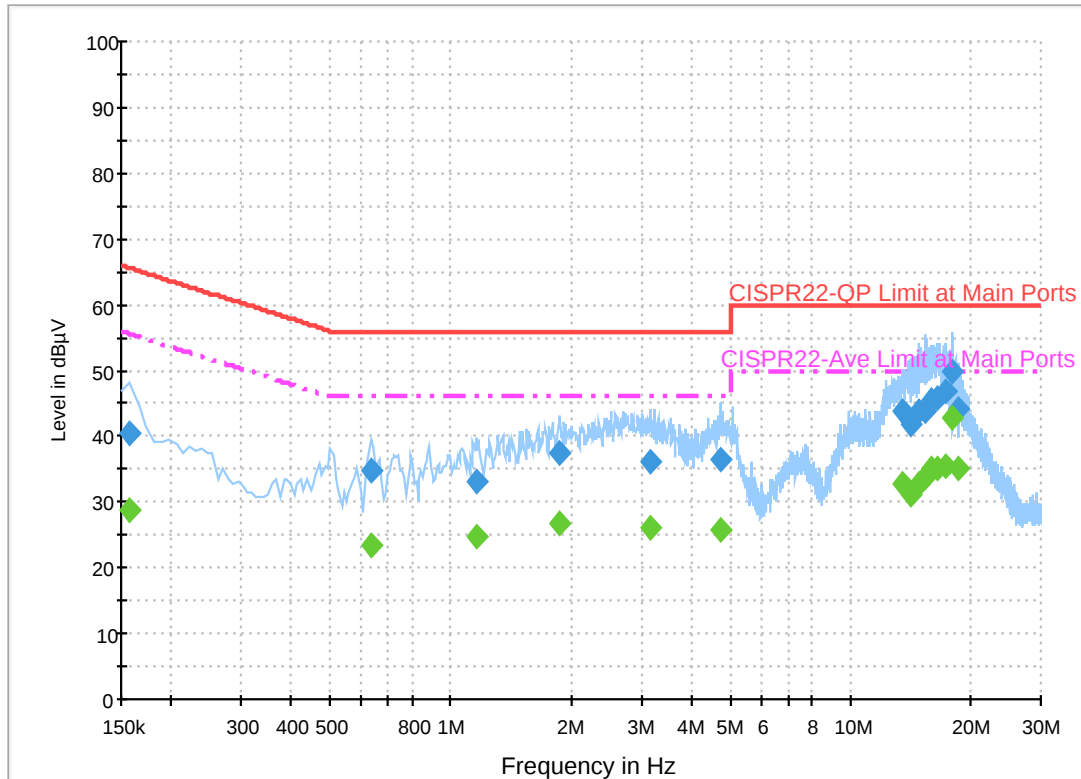
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	Temperature :	24~25℃
		Relative Humidity :	44~45%

EUT Information

Report NO : 752311
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	40.6	Off	L1	19.6	25.0	65.6
0.630000	34.6	Off	L1	19.6	21.4	56.0
1.158000	33.2	Off	L1	19.6	22.8	56.0
1.878000	37.3	Off	L1	19.6	18.7	56.0
3.158000	36.0	Off	L1	19.6	20.0	56.0
4.742000	36.3	Off	L1	19.8	19.7	56.0
13.494000	43.8	Off	L1	20.2	16.2	60.0
14.214000	41.7	Off	L1	20.3	18.3	60.0
14.870000	43.7	Off	L1	20.3	16.3	60.0
15.446000	43.7	Off	L1	20.3	16.3	60.0
16.030000	45.6	Off	L1	20.4	14.4	60.0
16.518000	45.9	Off	L1	20.4	14.1	60.0
17.382000	46.8	Off	L1	20.5	13.2	60.0
17.982000	49.8	Off	L1	20.5	10.2	60.0
18.574000	44.2	Off	L1	20.5	15.8	60.0

Final Result 2

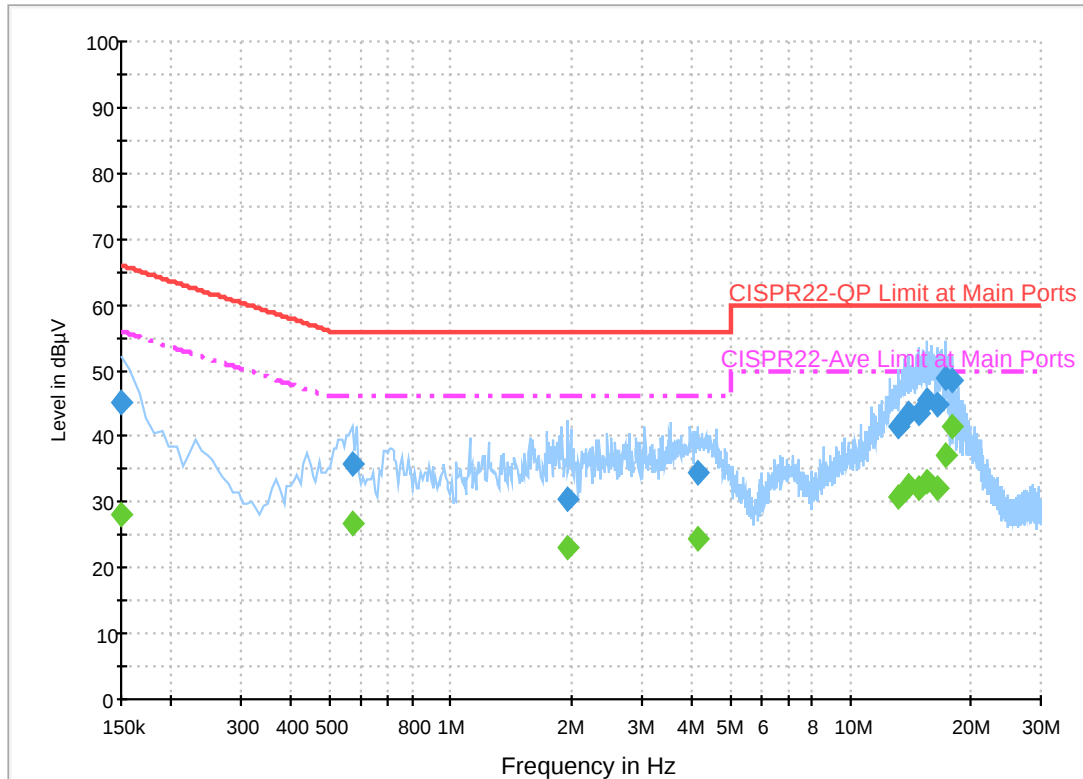
Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	28.8	Off	L1	19.6	26.8	55.6
0.630000	23.4	Off	L1	19.6	22.6	46.0
1.158000	24.8	Off	L1	19.6	21.2	46.0

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
1.878000	26.9	Off	L1	19.6	19.1	46.0
3.158000	25.9	Off	L1	19.6	20.1	46.0
4.742000	25.8	Off	L1	19.8	20.2	46.0
13.494000	32.7	Off	L1	20.2	17.3	50.0
14.214000	31.3	Off	L1	20.3	18.7	50.0
14.870000	32.9	Off	L1	20.3	17.1	50.0
15.446000	33.7	Off	L1	20.3	16.3	50.0
16.030000	35.0	Off	L1	20.4	15.0	50.0
16.518000	35.0	Off	L1	20.4	15.0	50.0
17.382000	35.3	Off	L1	20.5	14.7	50.0
17.982000	42.7	Off	L1	20.5	7.3	50.0
18.574000	35.2	Off	L1	20.5	14.8	50.0

EUT Information

Report NO : 752311
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	45.1	Off	N	19.5	20.9	66.0
0.566000	35.9	Off	N	19.5	20.1	56.0
1.966000	30.3	Off	N	19.6	25.7	56.0
4.142000	34.4	Off	N	19.7	21.6	56.0
13.206000	41.4	Off	N	20.3	18.6	60.0
14.062000	43.4	Off	N	20.3	16.6	60.0
14.830000	43.6	Off	N	20.4	16.4	60.0
15.558000	45.6	Off	N	20.4	14.4	60.0
16.534000	44.9	Off	N	20.5	15.1	60.0
17.294000	48.8	Off	N	20.5	11.2	60.0
17.998000	48.6	Off	N	20.6	11.4	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	28.2	Off	N	19.5	27.8	56.0
0.566000	26.6	Off	N	19.5	19.4	46.0
1.966000	23.0	Off	N	19.6	23.0	46.0
4.142000	24.5	Off	N	19.7	21.5	46.0
13.206000	30.9	Off	N	20.3	19.1	50.0
14.062000	32.6	Off	N	20.3	17.4	50.0
14.830000	32.0	Off	N	20.4	18.0	50.0

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.558000	33.2	Off	N	20.4	16.8	50.0
16.534000	32.2	Off	N	20.5	17.8	50.0
17.294000	37.2	Off	N	20.5	12.8	50.0
17.998000	41.3	Off	N	20.6	8.7	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Alex Jeng, Bill Chang, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	50~58%

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		5055.9	50.46	-23.54	74	41.5	32.21	7.3	30.55	187	60	P	H
		5132.34	41.97	-12.03	54	32.88	32.31	7.34	30.56	187	60	A	H
	*	5180	104.3	-	-	95.1	32.39	7.37	30.56	187	60	P	H
	*	5180	96.75	-	-	87.55	32.39	7.37	30.56	187	60	A	H
													H
													H
		5143	50.55	-23.45	74	41.42	32.34	7.35	30.56	295	157	P	V
		5123.24	41.6	-12.4	54	32.52	32.31	7.33	30.56	295	157	A	V
	*	5180	100.84	-	-	91.64	32.39	7.37	30.56	295	157	P	V
	*	5180	93.15	-	-	83.95	32.39	7.37	30.56	295	157	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5087.62	50.14	-23.86	74	41.15	32.23	7.31	30.55	185	53	P	H
		5134.42	41.47	-12.53	54	32.38	32.31	7.34	30.56	185	53	A	H
	*	5220	104.67	-	-	95.4	32.45	7.39	30.57	185	53	P	H
	*	5220	97.07	-	-	87.8	32.45	7.39	30.57	185	53	A	H
		5375.44	48.97	-25.03	74	39.4	32.69	7.47	30.59	185	53	P	H
		5456.36	41.02	-12.98	54	31.26	32.82	7.54	30.6	185	53	A	H
		5053.3	50.16	-23.84	74	41.23	32.18	7.3	30.55	275	174	P	V
		5094.38	41.44	-12.56	54	32.41	32.26	7.32	30.55	275	174	A	V
	*	5220	100.06	-	-	90.79	32.45	7.39	30.57	275	174	P	V
	*	5220	92.33	-	-	83.06	32.45	7.39	30.57	275	174	A	V
		5444.88	50.37	-23.63	74	40.66	32.79	7.52	30.6	275	174	P	V
		5457.48	40.73	-13.27	54	30.97	32.82	7.54	30.6	275	174	A	V



802.11n HT20 CH 48 5240MHz		5100.36	50.33	-23.67	74	41.3	32.26	7.32	30.55	186	52	P	H
		5095.16	41.42	-12.58	54	32.39	32.26	7.32	30.55	186	52	A	H
	*	5240	105.08	-	-	95.79	32.47	7.4	30.58	186	52	P	H
	*	5240	97.6	-	-	88.31	32.47	7.4	30.58	186	52	A	H
		5390.56	49.43	-24.57	74	39.84	32.71	7.48	30.6	186	52	P	H
		5459.44	40.84	-13.16	54	31.08	32.82	7.54	30.6	186	52	A	H
		5073.58	49.98	-24.02	74	40.99	32.23	7.31	30.55	272	173	P	V
		5043.94	41.46	-12.54	54	32.54	32.18	7.29	30.55	272	173	A	V
	*	5240	100.89	-	-	91.6	32.47	7.4	30.58	272	173	P	V
	*	5240	93.1	-	-	83.81	32.47	7.4	30.58	272	173	A	V
		5398.4	49.74	-24.26	74	40.11	32.74	7.49	30.6	272	173	P	V
		5456.92	40.63	-13.37	54	30.87	32.82	7.54	30.6	272	173	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	44.16	-29.84	74	51.33	38.57	10.75	57.03	100	0	P	H
		15540	46.48	-27.52	74	50.52	38.68	13	56.48	100	0	P	H
													H
													H
		10360	43.72	-30.28	74	50.89	38.57	10.75	57.03	100	0	P	V
		15540	46.54	-27.46	74	50.58	38.68	13	56.48	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	45.76	-28.24	74	52.84	38.59	10.8	57.01	100	0	P	H
		15660	45.59	-28.41	74	49.94	38.24	13.07	56.41	100	0	P	H
													H
													H
		10440	44.54	-29.46	74	51.62	38.59	10.8	57.01	100	0	P	V
		15660	44.94	-29.06	74	49.29	38.24	13.07	56.41	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	46.55	-27.45	74	53.58	38.6	10.83	57	100	0	P	H
		15720	46.45	-27.55	74	50.99	37.99	13.1	56.37	100	0	P	H
													H
													H
		10480	45.99	-28.01	74	53.02	38.6	10.83	57	100	0	P	V
		15720	45.47	-28.53	74	50.01	37.99	13.1	56.37	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5049.66	50.45	-23.55	74	41.53	32.18	7.29	30.55	194	46	P	H
		5145.6	43.22	-10.78	54	34.09	32.34	7.35	30.56	194	46	A	H
	*	5190	102.37	-	-	93.18	32.39	7.37	30.57	194	46	P	H
	*	5190	94.52	-	-	85.33	32.39	7.37	30.57	194	46	A	H
		5442.64	48.93	-25.07	74	39.22	32.79	7.52	30.6	194	46	P	H
		5453.84	41.59	-12.41	54	31.83	32.82	7.54	30.6	194	46	A	H
		5099.32	50.49	-23.51	74	41.46	32.26	7.32	30.55	278	342	P	V
		5112.06	42.23	-11.77	54	33.16	32.29	7.33	30.55	278	342	A	V
	*	5190	97.85	-	-	88.66	32.39	7.37	30.57	278	342	P	V
	*	5190	90.04	-	-	80.85	32.39	7.37	30.57	278	342	A	V
		5413.52	48.89	-25.11	74	39.21	32.77	7.51	30.6	278	342	P	V
		5448.24	41.39	-12.61	54	31.63	32.82	7.54	30.6	278	342	A	V
802.11n HT40 CH 46 5230MHz		5075.4	50.54	-23.46	74	41.55	32.23	7.31	30.55	185	51	P	H
		5048.62	42.33	-11.67	54	33.41	32.18	7.29	30.55	185	51	A	H
	*	5230	103.46	-	-	94.17	32.47	7.39	30.57	185	51	P	H
	*	5230	95.68	-	-	86.39	32.47	7.39	30.57	185	51	A	H
		5457.2	50.63	-23.37	74	40.87	32.82	7.54	30.6	185	51	P	H
		5444.6	42.04	-11.96	54	32.33	32.79	7.52	30.6	185	51	A	H
		5095.42	50.86	-23.14	74	41.83	32.26	7.32	30.55	275	328	P	V
		5133.9	42.19	-11.81	54	33.1	32.31	7.34	30.56	275	328	A	V
	*	5230	99.6	-	-	90.31	32.47	7.39	30.57	275	328	P	V
	*	5230	91.42	-	-	82.13	32.47	7.39	30.57	275	328	A	V
		5448.8	50.55	-23.45	74	40.79	32.82	7.54	30.6	275	328	P	V
		5444.32	41.4	-12.6	54	31.69	32.79	7.52	30.6	275	328	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 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5129.48	55.19	-18.81	74	46.1	32.31	7.34	30.56	188	48	P	H
		5149.5	49.45	-4.55	54	40.32	32.34	7.35	30.56	188	48	A	H
	*	5210	100.58	-	-	91.32	32.45	7.38	30.57	188	48	P	H
	*	5210	93.27	-	-	84.01	32.45	7.38	30.57	188	48	A	H
		5426.68	49.75	-24.25	74	40.07	32.77	7.51	30.6	188	48	P	H
		5436.76	43.16	-10.84	54	33.45	32.79	7.52	30.6	188	48	A	H
		5146.9	55.3	-18.7	74	46.17	32.34	7.35	30.56	244	302	P	V
		5147.94	45.12	-8.88	54	35.99	32.34	7.35	30.56	244	302	A	V
	*	5210	95.01	-	-	85.75	32.45	7.38	30.57	244	302	P	V
	*	5210	88.01	-	-	78.75	32.45	7.38	30.57	244	302	A	V
		5445.16	49.71	-24.29	74	40	32.79	7.52	30.6	244	302	P	V
		5438.16	43.05	-10.95	54	33.34	32.79	7.52	30.6	244	302	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5023.8	50.62	-23.38	74	41.73	32.15	7.28	30.54	185	52	P	H
		5119.34	41.49	-12.51	54	32.43	32.29	7.33	30.56	185	52	A	H
	*	5260	105.79	-	-	96.43	32.53	7.41	30.58	185	52	P	H
	*	5260	97.86	-	-	88.5	32.53	7.41	30.58	185	52	A	H
		5440.32	49.64	-24.36	74	39.93	32.79	7.52	30.6	185	52	P	H
		5453.28	41.25	-12.75	54	31.49	32.82	7.54	30.6	185	52	A	H
		5112.54	50	-24	74	40.94	32.29	7.33	30.56	257	175	P	V
		5068	41.47	-12.53	54	32.51	32.21	7.3	30.55	257	175	A	V
	*	5260	101.1	-	-	91.74	32.53	7.41	30.58	257	175	P	V
	*	5260	93.66	-	-	84.3	32.53	7.41	30.58	257	175	A	V
		5448.72	49.83	-24.17	74	40.07	32.82	7.54	30.6	257	175	P	V
		5452.56	40.8	-13.2	54	31.04	32.82	7.54	30.6	257	175	A	V
802.11n HT20 CH 60 5300MHz		5067.66	50.79	-23.21	74	41.83	32.21	7.3	30.55	183	52	P	H
		5068.34	41.59	-12.41	54	32.63	32.21	7.3	30.55	183	52	A	H
	*	5300	105.88	-	-	96.45	32.58	7.43	30.58	183	52	P	H
	*	5300	98.43	-	-	89	32.58	7.43	30.58	183	52	A	H
		5366.4	50.87	-23.13	74	41.3	32.69	7.47	30.59	183	52	P	H
		5350.08	41.9	-12.1	54	32.37	32.66	7.46	30.59	183	52	A	H
		5139.4	49.79	-24.21	74	40.7	32.31	7.34	30.56	245	360	P	V
		5087.38	41.6	-12.4	54	32.61	32.23	7.31	30.55	245	360	A	V
	*	5300	102.5	-	-	93.07	32.58	7.43	30.58	245	360	P	V
	*	5300	95.11	-	-	85.68	32.58	7.43	30.58	245	360	A	V
		5377.2	49.79	-24.21	74	40.21	32.69	7.48	30.59	245	360	P	V
		5355.12	41.03	-12.97	54	31.5	32.66	7.46	30.59	245	360	A	V



802.11n HT20 CH 64 5320MHz	*	5320	107.47	-	-	98.01	32.61	7.44	30.59	187	50	P	H
	*	5320	99.92	-	-	90.46	32.61	7.44	30.59	187	50	A	H
		5362.88	50.66	-23.34	74	41.09	32.69	7.47	30.59	187	50	P	H
		5366.72	42.65	-11.35	54	33.08	32.69	7.47	30.59	187	50	A	H
													H
													H
	*	5320	104.73	-	-	95.27	32.61	7.44	30.59	243	336	P	V
	*	5320	97.17	-	-	87.71	32.61	7.44	30.59	243	336	A	V
		5369.44	49.76	-24.24	74	40.19	32.69	7.47	30.59	243	336	P	V
		5350.4	41.27	-12.73	54	31.74	32.66	7.46	30.59	243	336	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	46.09	-27.91	74	53.04	38.64	10.86	56.99	100	0	P	H
		15780	44.5	-29.5	74	49.15	37.81	13.13	56.33	100	0	P	H
													H
													H
		10520	45.39	-28.61	74	52.34	38.64	10.86	56.99	100	0	P	V
		15780	44.1	-29.9	74	48.75	37.81	13.13	56.33	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10640	45.51	-28.49	74	52.01	38.93	10.93	56.89	100	0	P	H
		15960	43.8	-30.2	74	48.95	37.12	13.23	56.22	100	0	P	H
													H
													H
		10640	45.01	-28.99	74	51.51	38.93	10.93	56.89	100	0	P	V
		15960	44.75	-29.25	74	49.9	37.12	13.23	56.22	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	45.22	-28.78	74	51.72	38.93	10.93	56.89	100	0	P	H
		15960	44.61	-29.39	74	49.76	37.12	13.23	56.22	100	0	P	H
													H
													H
		10640	44.77	-29.23	74	51.27	38.93	10.93	56.89	100	0	P	V
		15960	44.8	-29.2	74	49.95	37.12	13.23	56.22	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5106.42	51.49	-22.51	74	42.43	32.29	7.32	30.55	183	49	P	H
		5005.44	42.32	-11.68	54	33.46	32.13	7.27	30.54	183	49	A	H
	*	5270	104.15	-	-	94.78	32.53	7.42	30.58	183	49	P	H
	*	5270	96.24	-	-	86.87	32.53	7.42	30.58	183	49	A	H
		5381.04	50.67	-23.33	74	41.07	32.71	7.48	30.59	183	49	P	H
		5356.08	42.48	-11.52	54	32.95	32.66	7.46	30.59	183	49	A	H
		5048.96	50.44	-23.56	74	41.52	32.18	7.29	30.55	245	342	P	V
		5098.94	42.25	-11.75	54	33.22	32.26	7.32	30.55	245	342	A	V
	*	5270	99.39	-	-	90.02	32.53	7.42	30.58	245	342	P	V
	*	5270	91.89	-	-	82.52	32.53	7.42	30.58	245	342	A	V
		5448.72	49.6	-24.4	74	39.84	32.82	7.54	30.6	245	342	P	V
		5354.4	41.42	-12.58	54	31.89	32.66	7.46	30.59	245	342	A	V
802.11n HT40 CH 62 5310MHz		5094.18	49.81	-24.19	74	40.78	32.26	7.32	30.55	184	48	P	H
		5080.24	42.12	-11.88	54	33.13	32.23	7.31	30.55	184	48	A	H
	*	5310	104.39	-	-	94.92	32.61	7.44	30.58	184	48	P	H
	*	5310	96.95	-	-	87.48	32.61	7.44	30.58	184	48	A	H
		5352.24	54.03	-19.97	74	44.5	32.66	7.46	30.59	184	48	P	H
		5350.32	47.2	-6.8	54	37.67	32.66	7.46	30.59	184	48	A	H
		5083.3	49.72	-24.28	74	40.73	32.23	7.31	30.55	242	322	P	V
		5016.66	42.2	-11.8	54	33.34	32.13	7.27	30.54	242	322	A	V
	*	5310	100.44	-	-	90.97	32.61	7.44	30.58	242	322	P	V
	*	5310	92.67	-	-	83.2	32.61	7.44	30.58	242	322	A	V
		5350.08	50.97	-23.03	74	41.44	32.66	7.46	30.59	242	322	P	V
		5350.8	43.53	-10.47	54	34	32.66	7.46	30.59	242	322	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 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5021.08	50.44	-23.56	74	41.55	32.15	7.28	30.54	186	49	P	H
		5091.12	44.2	-9.8	54	35.17	32.26	7.32	30.55	186	49	A	H
	*	5290	101.35	-	-	91.95	32.55	7.43	30.58	186	49	P	H
	*	5290	94.5	-	-	85.1	32.55	7.43	30.58	186	49	A	H
		5357.76	58.15	-15.85	74	48.62	32.66	7.46	30.59	186	49	P	H
		5353.2	52.85	-1.15	54	43.32	32.66	7.46	30.59	186	49	A	H
		5113.9	50.12	-23.88	74	41.06	32.29	7.33	30.56	245	313	P	V
		5094.52	43.89	-10.11	54	34.86	32.26	7.32	30.55	245	313	A	V
	*	5290	97.03	-	-	87.63	32.55	7.43	30.58	245	313	P	V
	*	5290	90.03	-	-	80.63	32.55	7.43	30.58	245	313	A	V
		5357.04	54.69	-19.31	74	45.16	32.66	7.46	30.59	245	313	P	V
		5350.32	48.5	-5.5	54	38.97	32.66	7.46	30.59	245	313	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5452.08	52.17	-21.83	74	42.41	32.82	7.54	30.6	181	50	P	H
		5467.6	51.24	-16.96	68.2	41.44	32.85	7.56	30.61	181	50	P	H
		5459.28	43.74	-10.26	54	33.98	32.82	7.54	30.6	181	50	A	H
	*	5500	108.58	-	-	98.71	32.9	7.58	30.61	181	50	P	H
	*	5500	101.15	-	-	91.28	32.9	7.58	30.61	181	50	A	H
													H
		5441.84	49.75	-24.25	74	40.04	32.79	7.52	30.6	251	311	P	V
		5468.08	50	-18.2	68.2	40.2	32.85	7.56	30.61	251	311	P	V
		5455.28	41.76	-12.24	54	32	32.82	7.54	30.6	251	311	A	V
	*	5500	102.94	-	-	93.07	32.9	7.58	30.61	251	311	P	V
	*	5500	95.34	-	-	85.47	32.9	7.58	30.61	251	311	A	V
													V
802.11n HT20 CH 116 5580MHz		5441.2	49.49	-24.51	74	39.78	32.79	7.52	30.6	188	48	P	H
		5465.44	50.96	-17.24	68.2	41.18	32.85	7.54	30.61	188	48	P	H
		5459.68	41.51	-12.49	54	31.75	32.82	7.54	30.6	188	48	A	H
	*	5580	109.56	-	-	99.65	32.89	7.66	30.64	188	48	P	H
	*	5580	101.96	-	-	92.05	32.89	7.66	30.64	188	48	A	H
		5743.895	49.44	-18.76	68.2	39.49	32.85	7.83	30.73	188	48	P	H
		5392	48.74	-25.26	74	39.15	32.71	7.48	30.6	255	304	P	V
		5462.8	50.76	-17.44	68.2	40.98	32.85	7.54	30.61	255	304	P	V
		5453.92	40.97	-13.03	54	31.21	32.82	7.54	30.6	255	304	A	V
	*	5580	103.54	-	-	93.63	32.89	7.66	30.64	255	304	P	V
	*	5580	96.1	-	-	86.19	32.89	7.66	30.64	255	304	A	V
		5748.62	49.92	-18.28	68.2	39.97	32.85	7.83	30.73	255	304	P	V



802.11n HT20 CH 140 5700MHz	*	5700	109.68	-	-	99.73	32.86	7.79	30.7	175	48	P	H
	*	5700	102.42	-	-	92.47	32.86	7.79	30.7	175	48	A	H
		5745.64	53.58	-14.62	68.2	43.63	32.85	7.83	30.73	175	48	P	H
													H
													H
													H
	*	5700	103.15	-	-	93.2	32.86	7.79	30.7	234	305	P	V
	*	5700	95.54	-	-	85.59	32.86	7.79	30.7	234	305	A	V
		5756.6	50.87	-17.33	68.2	40.91	32.85	7.84	30.73	234	305	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	47.05	-26.95	74	52.17	39.8	11.16	56.6	100	0	P	H
		16500	44.99	-23.21	68.2	49.02	37.7	13.28	55.7	100	0	P	H
													H
													H
		11000	46.53	-27.47	74	51.65	39.8	11.16	56.6	100	0	P	V
		16500	44.34	-23.86	68.2	48.37	37.7	13.28	55.7	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	46.51	-27.49	74	51.32	40	11.2	56.53	100	0	P	H
		16740	45.99	-22.21	68.2	47.86	39.97	13.29	55.8	100	0	P	H
													H
													H
		11160	46.66	-27.34	74	51.47	40	11.2	56.53	100	0	P	V
		16740	46.77	-21.43	68.2	48.64	39.97	13.29	55.8	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	47.39	-26.61	74	51.76	40.28	11.27	56.44	100	0	P	H
		17100	48.91	-19.29	68.2	48.55	42.4	13.37	56.06	100	0	P	H
													H
													H
		11400	47.35	-26.65	74	51.72	40.28	11.27	56.44	100	0	P	V
		17100	50.01	-18.19	68.2	49.65	42.4	13.37	56.06	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5431.6	50.92	-23.08	74	41.21	32.79	7.52	30.6	185	49	P	H
		5463.04	53.89	-14.31	68.2	44.11	32.85	7.54	30.61	185	49	P	H
		5459.92	43.96	-10.04	54	34.2	32.82	7.54	30.6	185	49	A	H
	*	5510	106.74	-	-	96.86	32.9	7.59	30.61	185	49	P	H
	*	5510	98.83	-	-	88.95	32.9	7.59	30.61	185	49	A	H
		5757.125	50.9	-17.3	68.2	40.94	32.85	7.84	30.73	185	49	P	H
		5457.52	49.6	-24.4	74	39.84	32.82	7.54	30.6	250	316	P	V
		5467.12	50.27	-17.93	68.2	40.47	32.85	7.56	30.61	250	316	P	V
		5457.52	42.5	-11.5	54	32.74	32.82	7.54	30.6	250	316	A	V
	*	5510	101.64	-	-	91.76	32.9	7.59	30.61	250	316	P	V
	*	5510	93.7	-	-	83.82	32.9	7.59	30.61	250	316	A	V
		5763.425	49.54	-18.66	68.2	39.59	32.85	7.84	30.74	250	316	P	V
802.11n HT40 CH 110 5550MHz		5419.84	50.96	-23.04	74	41.28	32.77	7.51	30.6	182	48	P	H
		5461.84	49.45	-18.75	68.2	39.69	32.82	7.54	30.6	182	48	P	H
		5458.96	43.1	-10.9	54	33.34	32.82	7.54	30.6	182	48	A	H
	*	5550	107.74	-	-	97.85	32.89	7.63	30.63	182	48	P	H
	*	5550	99.44	-	-	89.55	32.89	7.63	30.63	182	48	A	H
		5759.33	49.94	-18.26	68.2	39.98	32.85	7.84	30.73	182	48	P	H
		5427.28	49.24	-24.76	74	39.56	32.77	7.51	30.6	225	298	P	V
		5470	50.41	-17.79	68.2	40.61	32.85	7.56	30.61	225	298	P	V
		5459.92	41.66	-12.34	54	31.9	32.82	7.54	30.6	225	298	A	V
	*	5550	101.43	-	-	91.54	32.89	7.63	30.63	225	298	P	V
	*	5550	93.16	-	-	83.27	32.89	7.63	30.63	225	298	A	V
		5736.965	49.34	-18.86	68.2	39.37	32.85	7.83	30.71	225	298	P	V



802.11n HT40 CH 134 5670MHz		5451.15	49.57	-24.43	74	39.81	32.82	7.54	30.6	185	45	P	H
		5467.6	49.93	-18.27	68.2	40.13	32.85	7.56	30.61	185	45	P	H
		5445.9	41.66	-12.34	54	31.92	32.82	7.52	30.6	185	45	A	H
	*	5670	107.53	-	-	97.6	32.87	7.75	30.69	185	45	P	H
	*	5670	99.76	-	-	89.83	32.87	7.75	30.69	185	45	A	H
		5737.91	52.72	-15.48	68.2	42.77	32.85	7.83	30.73	185	45	P	H
		5380.1	48.76	-25.24	74	39.16	32.71	7.48	30.59	208	315	P	V
		5469.7	50.46	-17.74	68.2	40.66	32.85	7.56	30.61	208	315	P	V
		5443.45	41.77	-12.23	54	32.06	32.79	7.52	30.6	208	315	A	V
	*	5670	101.92	-	-	91.99	32.87	7.75	30.69	208	315	P	V
	*	5670	93.82	-	-	83.89	32.87	7.75	30.69	208	315	A	V
		5749.88	49.8	-18.4	68.2	39.85	32.85	7.83	30.73	208	315	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5444.56	55.21	-18.79	74	45.5	32.79	7.52	30.6	180	47	P	H
		5470	59.05	-9.15	68.2	49.25	32.85	7.56	30.61	180	47	P	H
		5452.48	48.11	-5.89	54	38.35	32.82	7.54	30.6	180	47	A	H
	*	5530	104.65	-	-	94.76	32.9	7.61	30.62	180	47	P	H
	*	5530	97.15	-	-	87.26	32.9	7.61	30.62	180	47	A	H
		5740.43	51.99	-16.21	68.2	42.04	32.85	7.83	30.73	180	47	P	H
		5455.12	50.52	-23.48	74	40.76	32.82	7.54	30.6	251	307	P	V
		5465.44	51.67	-16.53	68.2	41.89	32.85	7.54	30.61	251	307	P	V
		5456.8	43.96	-10.04	54	34.2	32.82	7.54	30.6	251	307	A	V
	*	5530	98.22	-	-	88.33	32.9	7.61	30.62	251	307	P	V
	*	5530	91.1	-	-	81.21	32.9	7.61	30.62	251	307	A	V
		5730.665	49.22	-18.98	68.2	39.26	32.86	7.81	30.71	251	307	P	V
802.11ac VHT80 CH 122 5610MHz		5425.84	49.29	-24.71	74	39.61	32.77	7.51	30.6	174	48	P	H
		5469.52	49.37	-18.83	68.2	39.57	32.85	7.56	30.61	174	48	P	H
		5457.04	43.6	-10.4	54	33.84	32.82	7.54	30.6	174	48	A	H
	*	5610	104.52	-	-	94.6	32.88	7.7	30.66	174	48	P	H
	*	5610	97.69	-	-	87.77	32.88	7.7	30.66	174	48	A	H
		5736.65	52.37	-15.83	68.2	42.4	32.85	7.83	30.71	174	48	P	H
		5446.72	50.01	-23.99	74	40.27	32.82	7.52	30.6	245	317	P	V
		5462.32	48.36	-19.84	68.2	38.6	32.82	7.54	30.6	245	317	P	V
		5439.76	42.58	-11.42	54	32.87	32.79	7.52	30.6	245	317	A	V
	*	5610	98.23	-	-	88.31	32.88	7.7	30.66	245	317	P	V
	*	5610	91.08	-	-	81.16	32.88	7.7	30.66	245	317	A	V
		5763.425	49.53	-18.67	68.2	39.58	32.85	7.84	30.74	245	317	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11n VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n VHT80 LF		85.62	22.72	-17.28	40	43.95	10.08	0.95	32.3	-	-	P	H
		90.48	22.53	-20.97	43.5	43.69	10.11	0.95	32.3	-	-	P	H
		260.04	19.81	-26.19	46	33.51	16.78	1.63	32.19	-	-	P	H
		447	21.15	-24.85	46	31.37	19.77	2.1	32.17	-	-	P	H
		761.3	27.63	-18.37	46	31.65	25.23	2.71	32.06	-	-	P	H
		958	31.32	-14.68	46	30.63	28.46	3.07	30.98	100	0	P	H
													H
													H
													H
													H
													H
													H
		32.97	29.13	-10.87	40	40.76	20.14	0.59	32.34	100	0	P	V
		119.91	21.97	-21.53	43.5	39.6	13.51	1.09	32.29	-	-	P	V
		260.85	17.99	-28.01	46	31.74	16.72	1.63	32.18	-	-	P	V
		428.8	20.04	-25.96	46	30.67	19.42	2.03	32.16	-	-	P	V
		614.3	26.75	-19.25	46	33.6	22.79	2.45	32.2	-	-	P	V
		899.9	30.47	-15.53	46	32.46	26.47	2.94	31.51	-	-	P	V
													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	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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 :	Alex Jeng, Bill Chang, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	50~58%

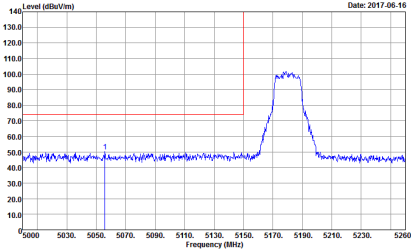
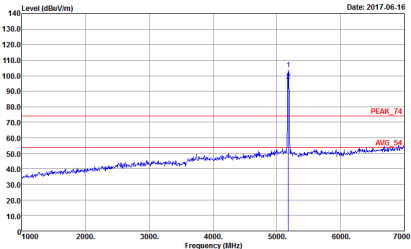
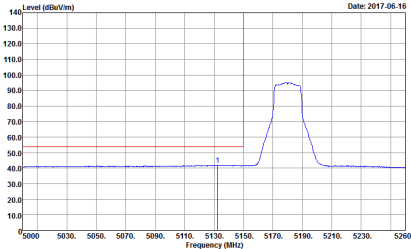
Note symbol

-L	Low channel location
-R	High channel location

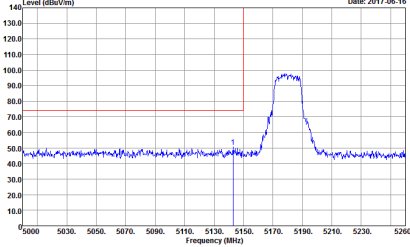
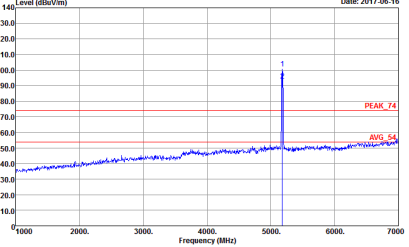
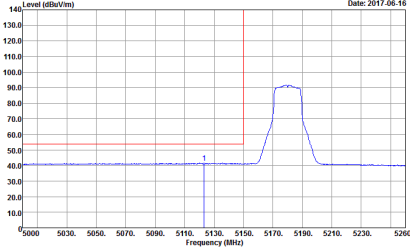


Band 1 - 5150~5250MHz

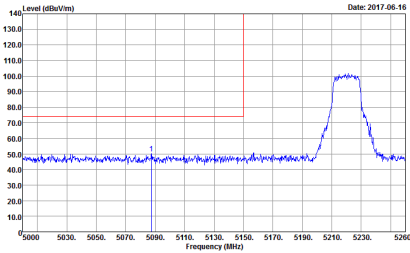
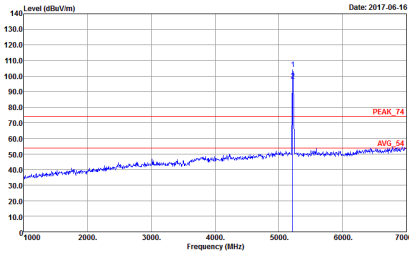
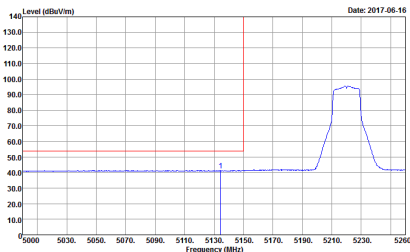
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2017.06.16 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5	 Level (dBuV/m) Frequency (MHz) Date: 2017.06.16 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2017.06.16 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5	Left blank

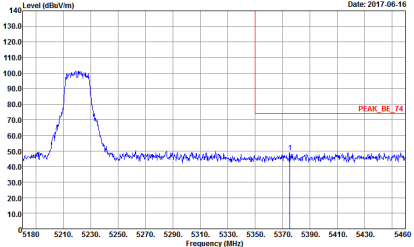
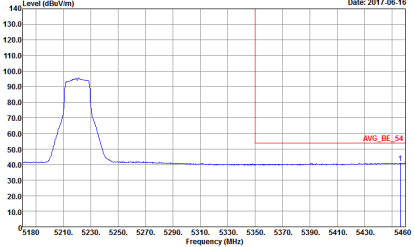


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 10 Power : 17.5	Left blank

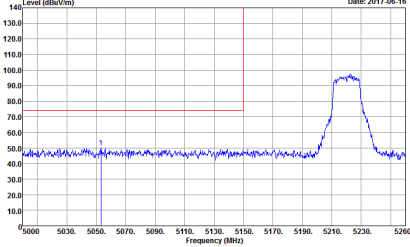
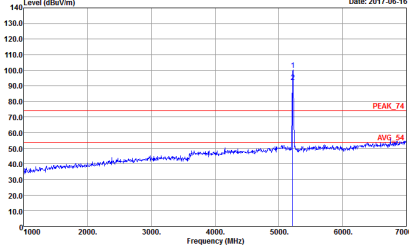
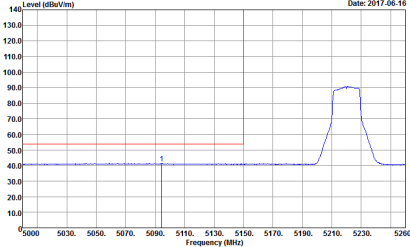


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 11 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 11 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank

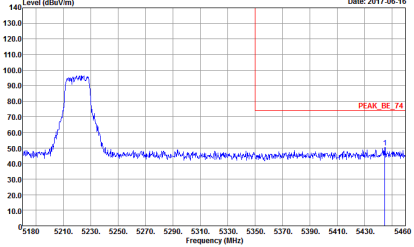
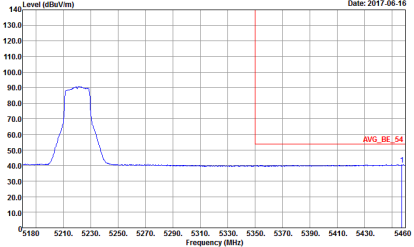


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank

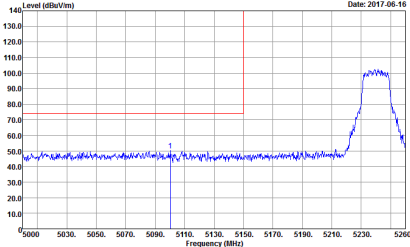
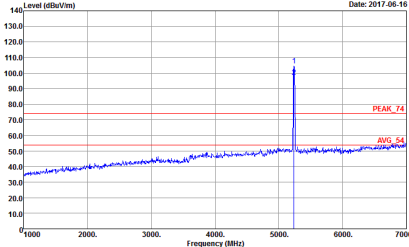
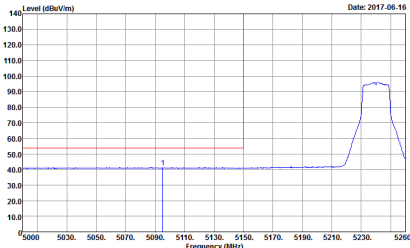


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank

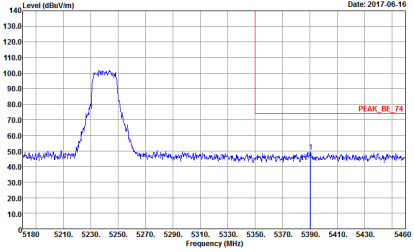
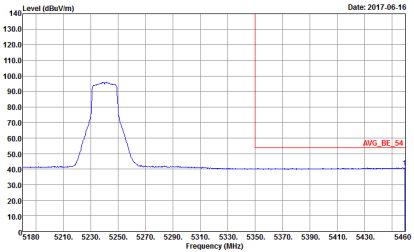


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17	Left blank

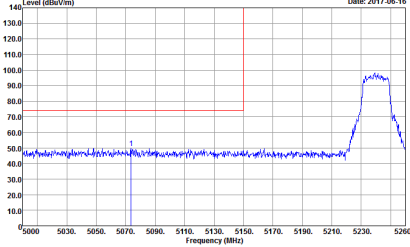
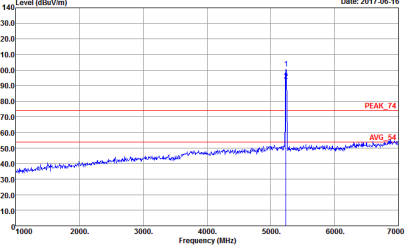
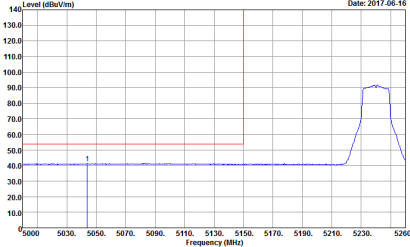


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 12 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 12 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank

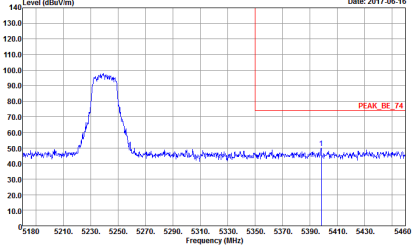
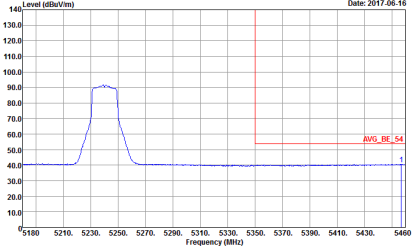


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank



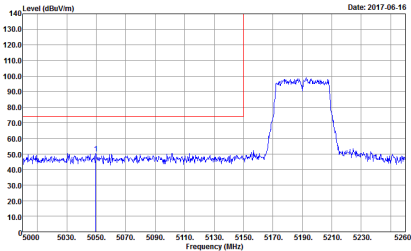
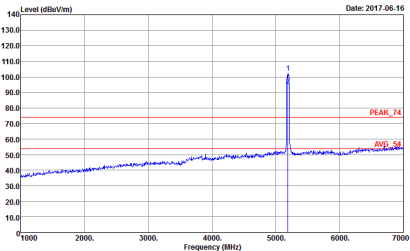
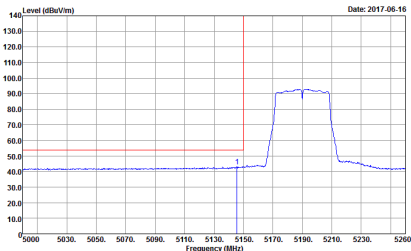
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 12 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 12 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank



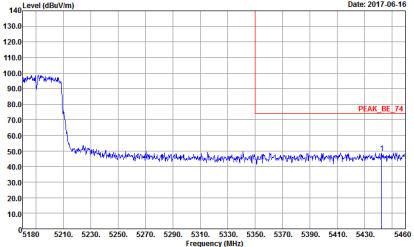
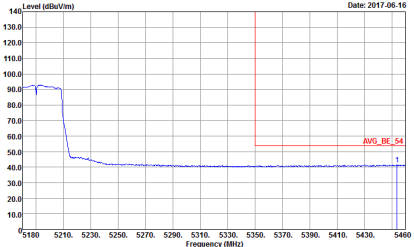
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 12 Power : 17	Left blank

Band 1 5150~5250MHz

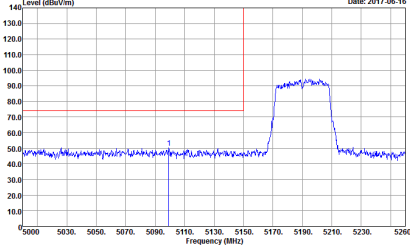
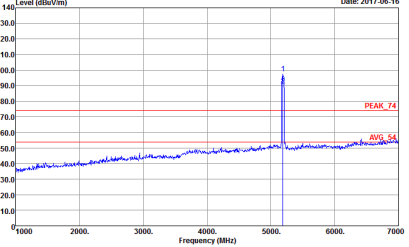
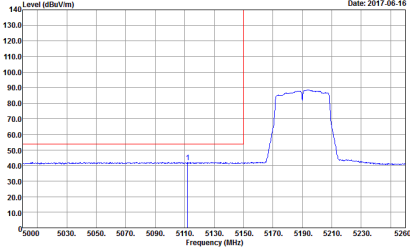
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI		Band 1 5150~5250MHz Band Edge @ 3m	
ANT		802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental	
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752311 Power : 17.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_9120D_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752311 Power : 17.5	
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 752311 Power : 17.5	Left blank	

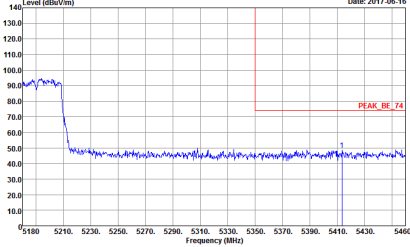
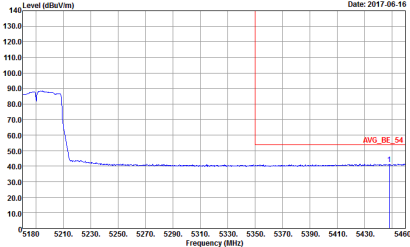


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 19 Power : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 19 Power : 17.5	Left blank

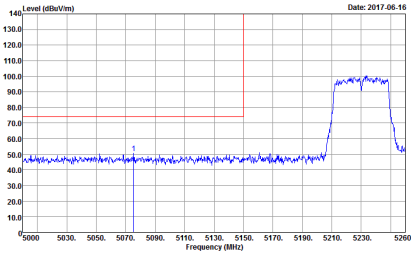
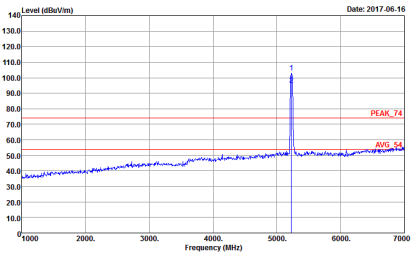
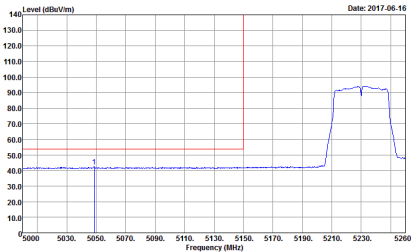


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 19 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 19 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 19 Power : 17.5	Left blank

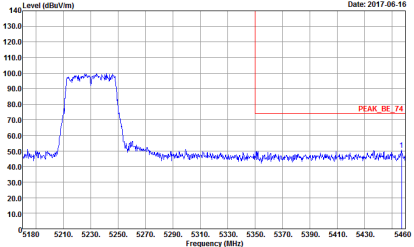
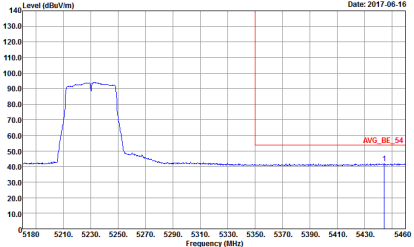


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 19 Power : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 19 Power : 17.5	Left blank

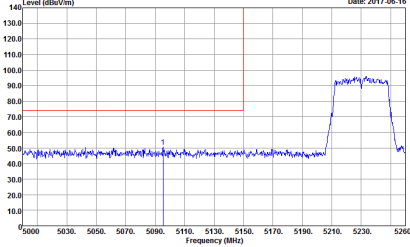
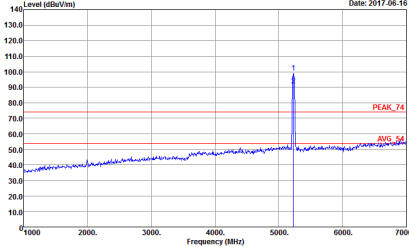
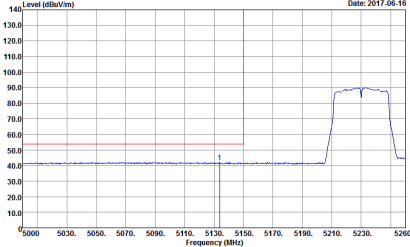


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 20 Power : 17.5	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 20 Power : 17.5
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 20 Power : 17.5	Left blank

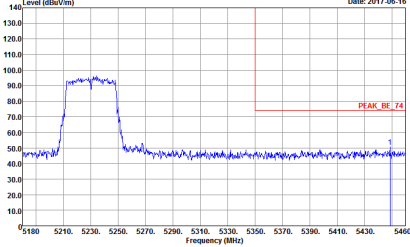
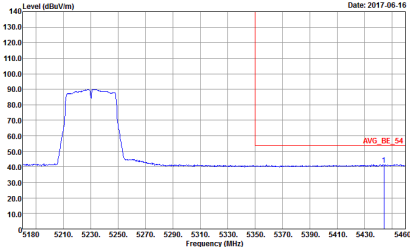


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT-Auto Project : Peak Mode : 752311 Power : 20 : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT-Auto Project : Peak Mode : 752311 Power : 20 : 17.5	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 20 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 20 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 20 Power : 17.5	Left blank

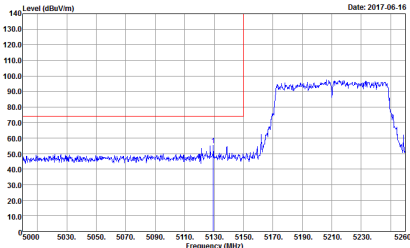
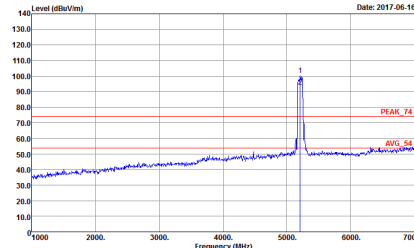
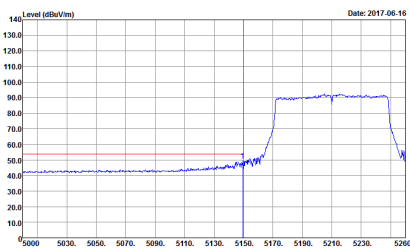


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 20 Power : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 20 Power : 17.5	Left blank

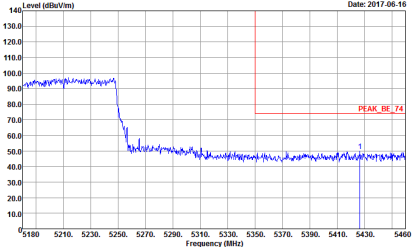
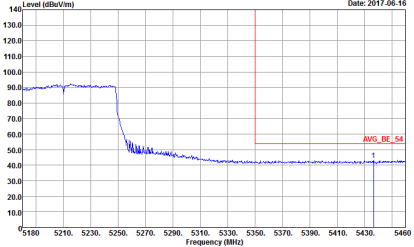


Band 1 5150~5250MHz

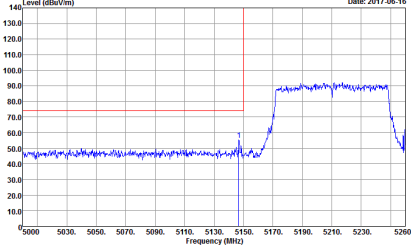
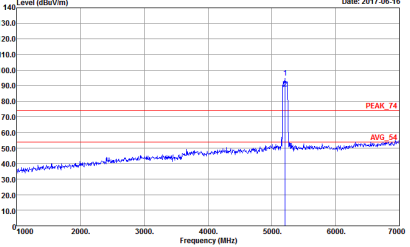
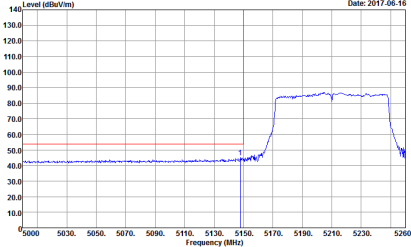
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120b_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120b_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120b_1522 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank

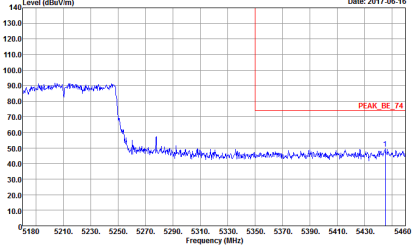
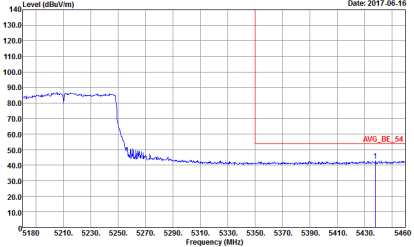


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank

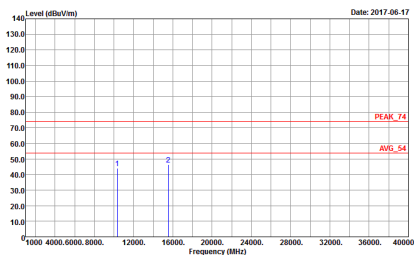
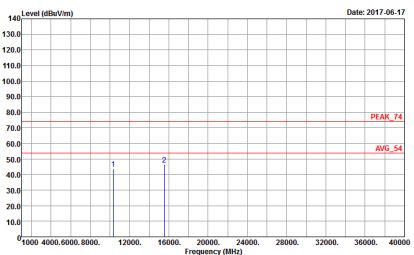


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 26 Power : 17	Left blank

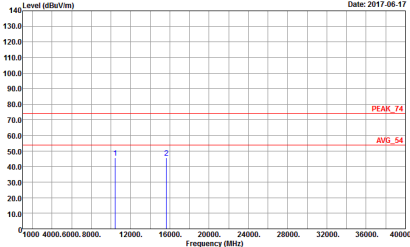
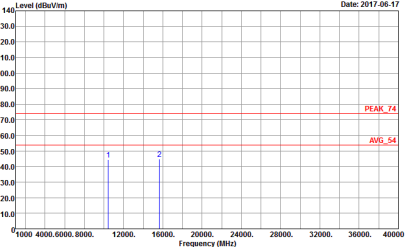


Band 1 - 5150~5250MHz

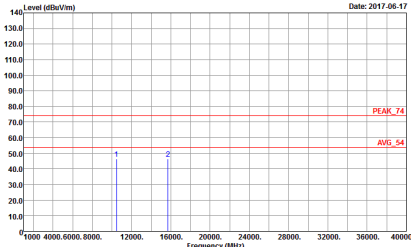
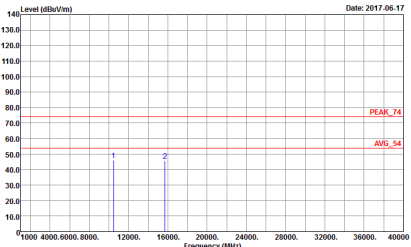
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 10 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 10 Power : 17.5



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 11 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 11 Power : 17

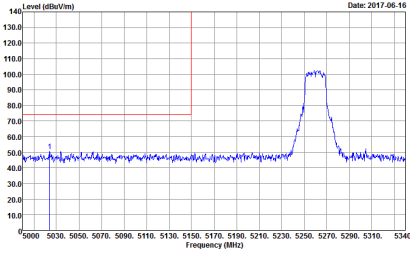
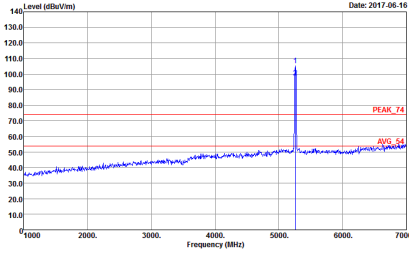
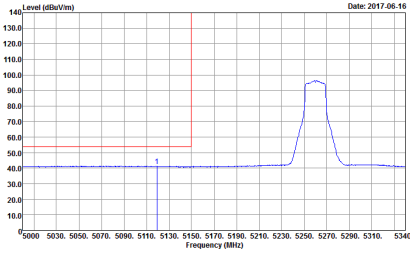


WIFI	Band 1 5150~5250MHz Harmonic @ 3m																									
ANT	802.11n HT20 CH48 5240MHz																									
1	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH13-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m SHF_HORN_584 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 752311</td></tr><tr><td>Mode</td><td>: 12</td></tr><tr><td>Power</td><td>: 17</td></tr></table>	Site	: 03CH13-HY	Condition	: PEAK_74 3m SHF_HORN_584 HORIZONTAL	Detector	: Peak	Project	: 752311	Mode	: 12	Power	: 17	<table><tr><td>Site</td><td>: 03CH13-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m SHF_HORN_584 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 752311</td></tr><tr><td>Mode</td><td>: 12</td></tr><tr><td>Power</td><td>: 17</td></tr></table>	Site	: 03CH13-HY	Condition	: PEAK_74 3m SHF_HORN_584 VERTICAL	Detector	: Peak	Project	: 752311	Mode	: 12	Power	: 17
	Site	: 03CH13-HY																								
Condition	: PEAK_74 3m SHF_HORN_584 HORIZONTAL																									
Detector	: Peak																									
Project	: 752311																									
Mode	: 12																									
Power	: 17																									
Site	: 03CH13-HY																									
Condition	: PEAK_74 3m SHF_HORN_584 VERTICAL																									
Detector	: Peak																									
Project	: 752311																									
Mode	: 12																									
Power	: 17																									

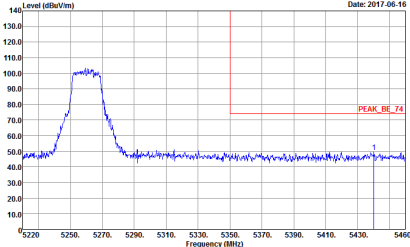
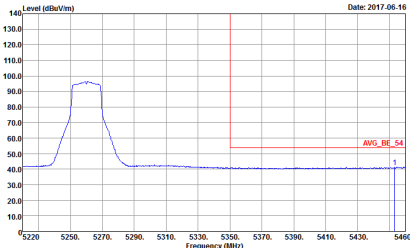


Band 2 - 5250~5350MHz

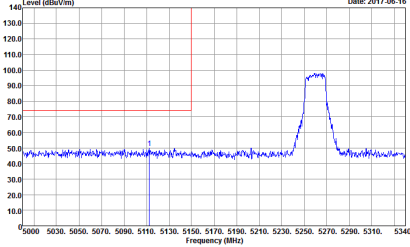
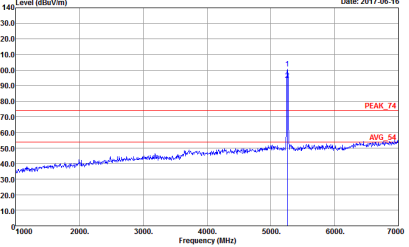
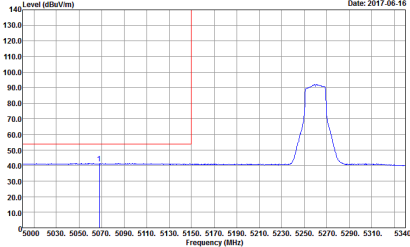
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120d_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120d_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120d_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank

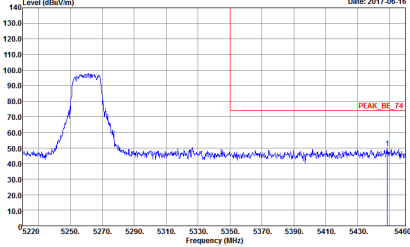
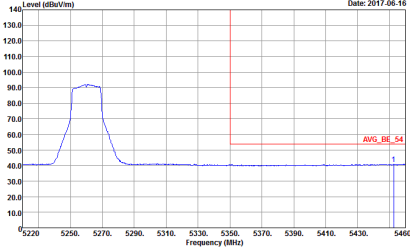


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank

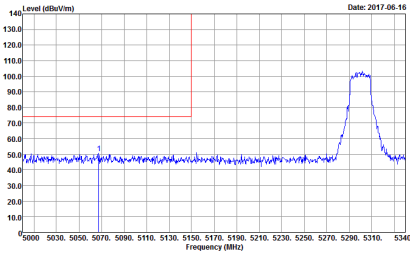
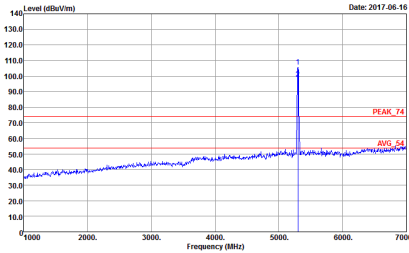
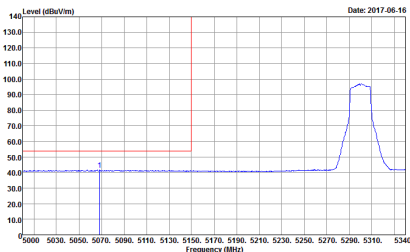


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank

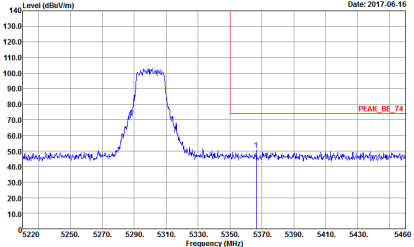
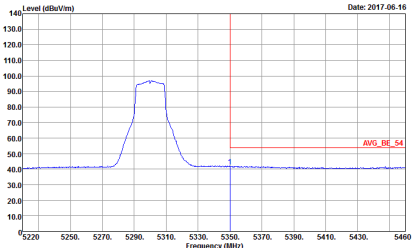


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17	Left blank

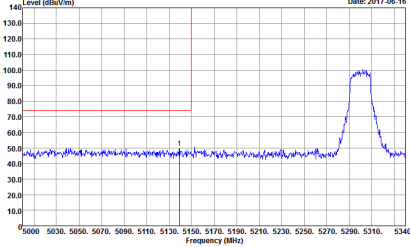
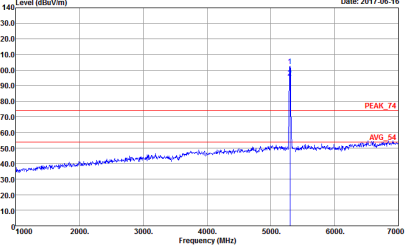
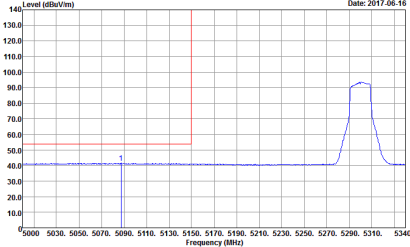


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank

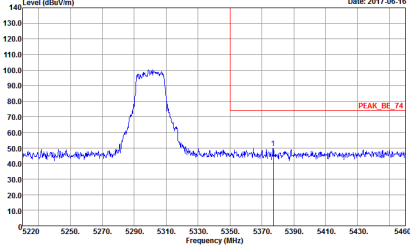
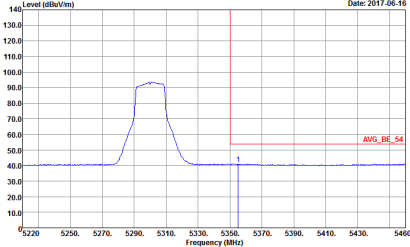


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank

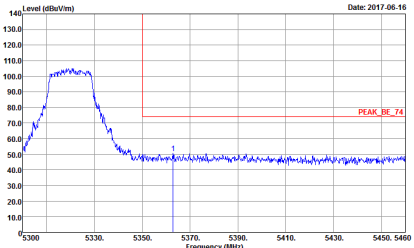
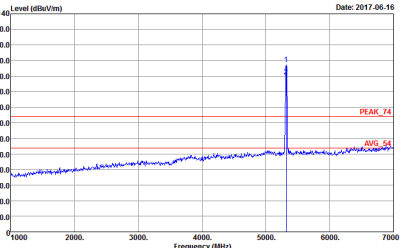
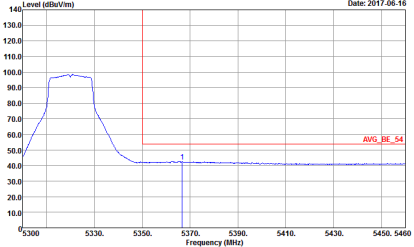


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank

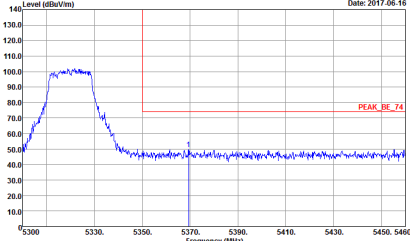
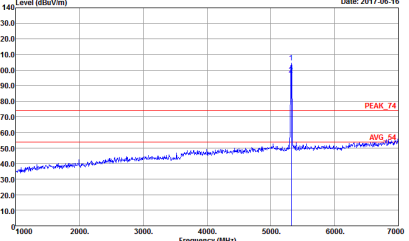
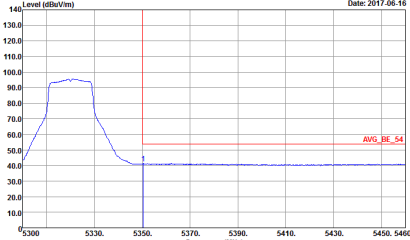


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 14 Power : 17	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5	Left blank

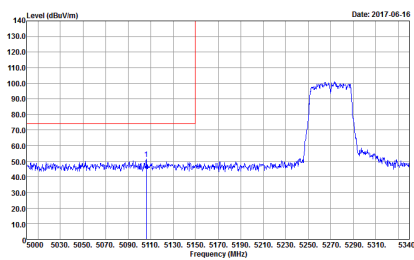
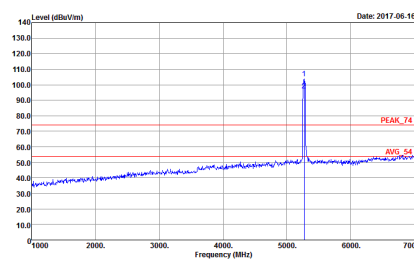
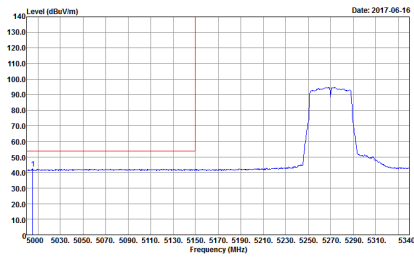


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 15 Power : 17.5	Left blank

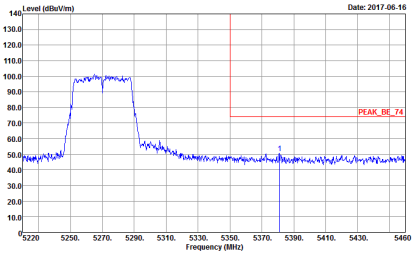
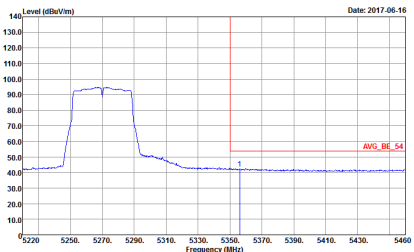


Band 2 5250~5350MHz

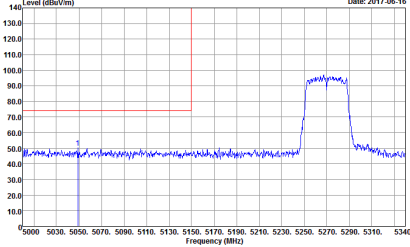
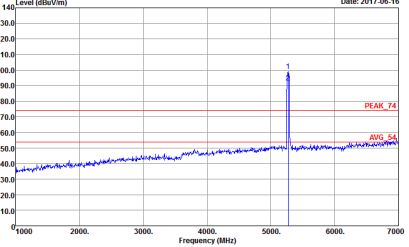
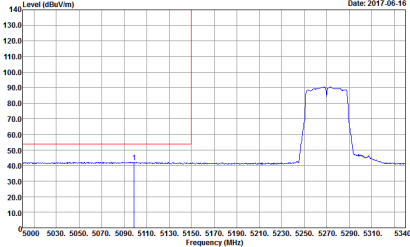
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 21 Power : 17	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 21 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 21 Power : 17	Left blank

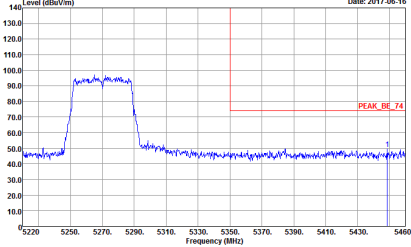
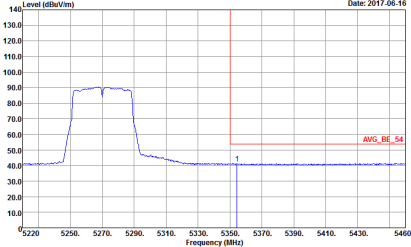


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z1 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z1 Power : 17	Left blank

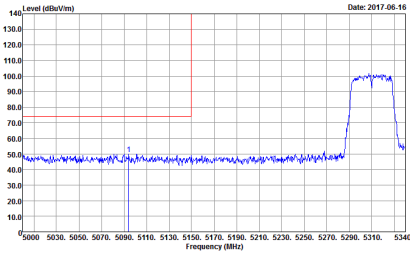
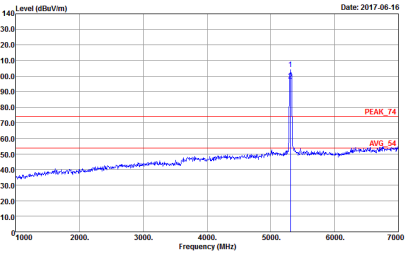
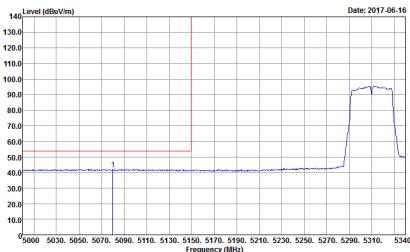


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z1 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z1 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z1 Power : 17	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : Z1 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : Z1 Power : 17	Left blank

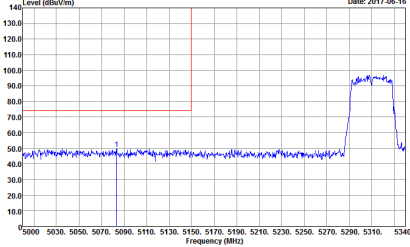
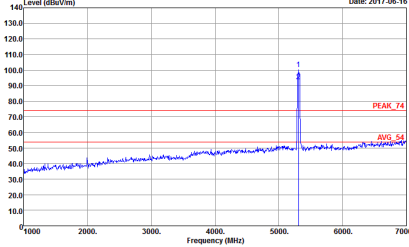
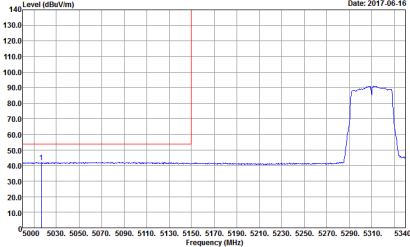


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2017-06-16 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank

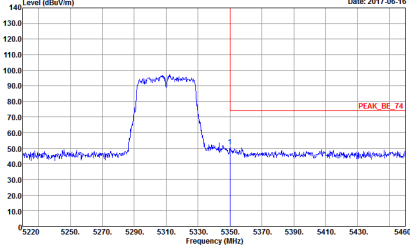
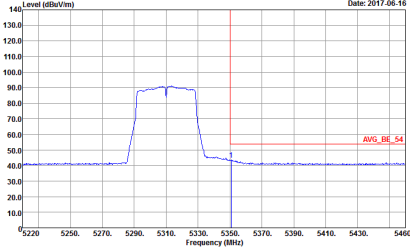


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank

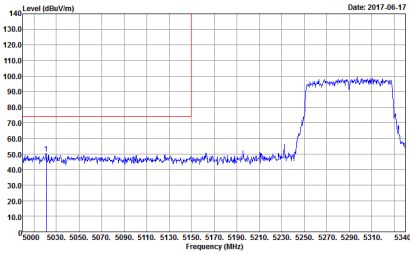
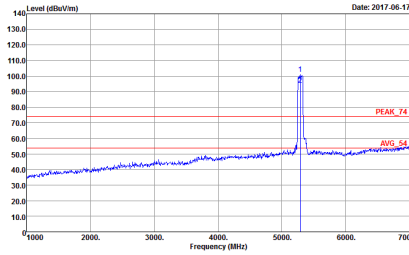
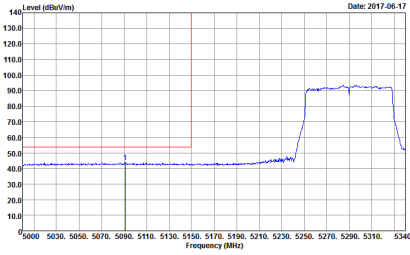


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 22 Power : 17	Left blank

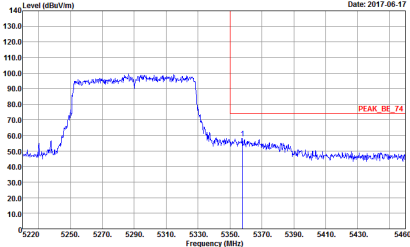
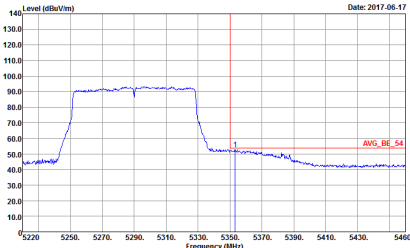


Band 2 5250~5350MHz

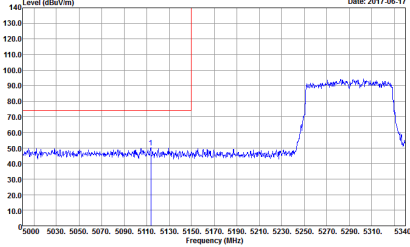
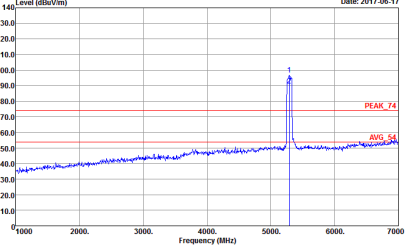
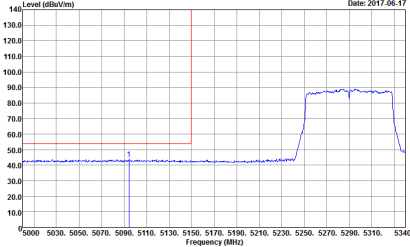
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank

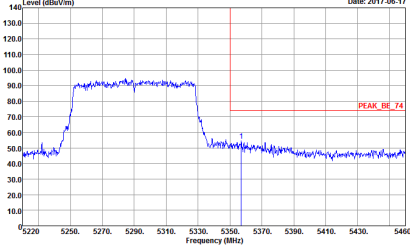
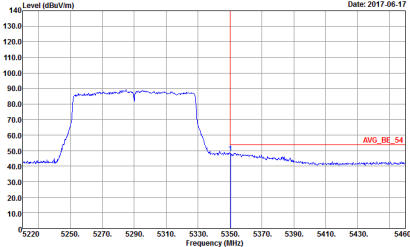


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank

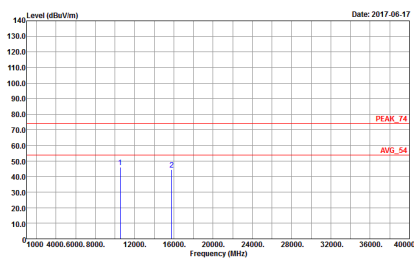
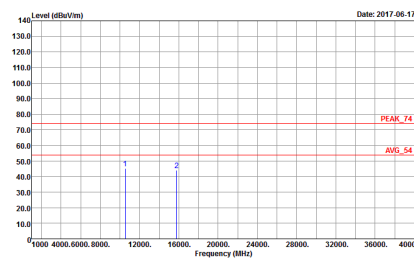


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1522 VERTICAL Detector : Peak Project : 752311 Mode : 27 Power : 17.5	Left blank

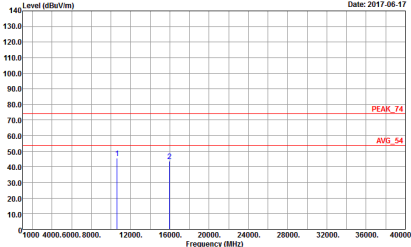
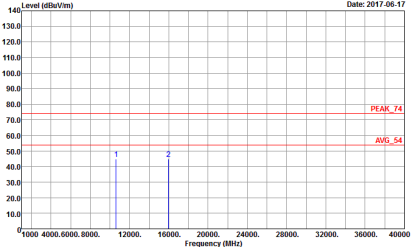


Band 2 - 5250~5350MHz

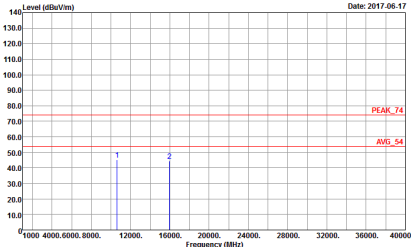
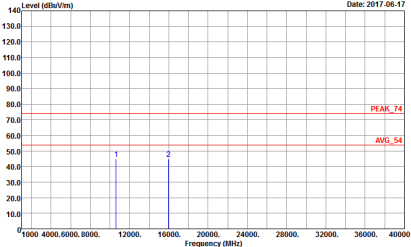
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 13 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 13 Power : 17



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 14 Power : 17	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 14 Power : 17

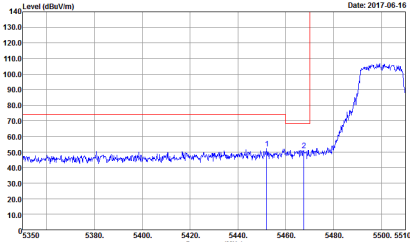
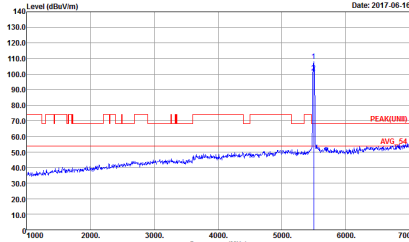
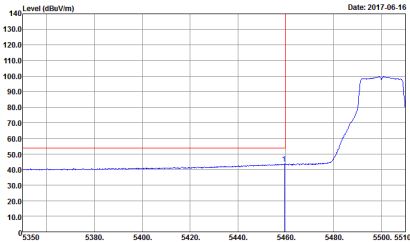


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 15 Power : 17.5	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 15 Power : 17.5

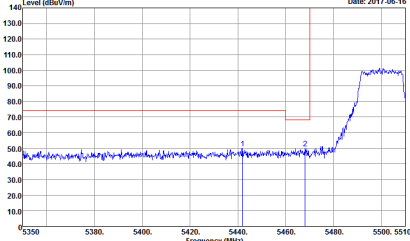
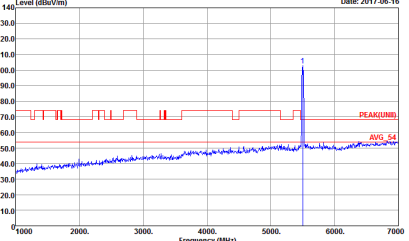
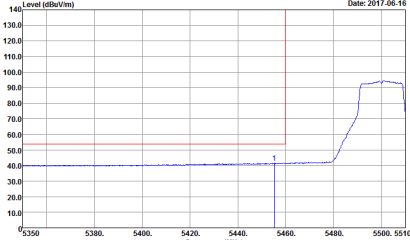


Band 3 - 5470~5725MHz

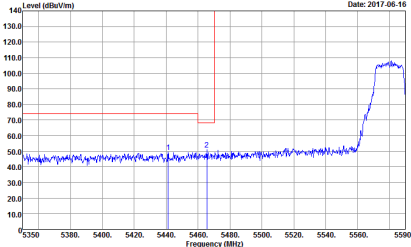
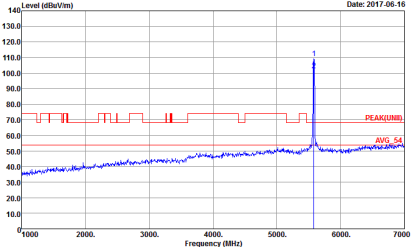
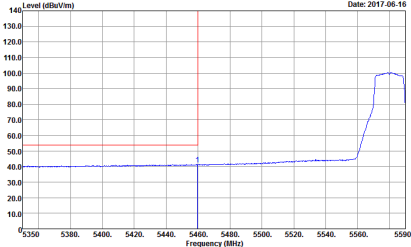
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17	Left blank

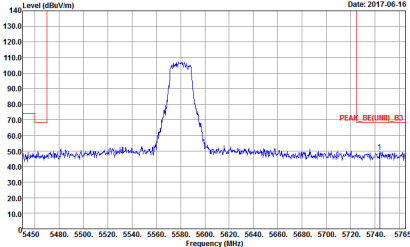


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 16 Power : 17	Left blank

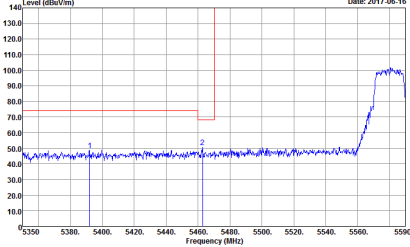
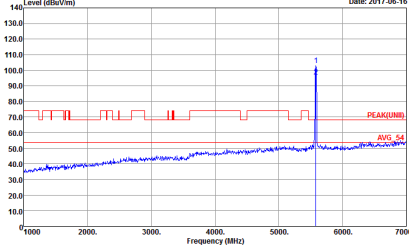
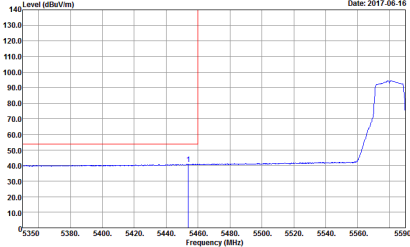


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 17 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 17 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 17 Power : 17	Left blank

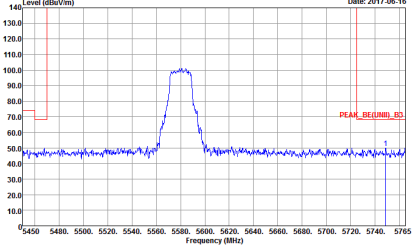


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 17 Power : 17	Left blank

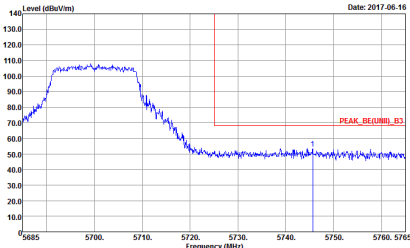
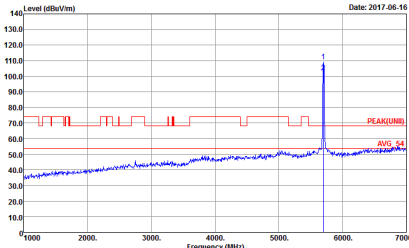


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 17 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 17 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 17 Power : 17	Left blank

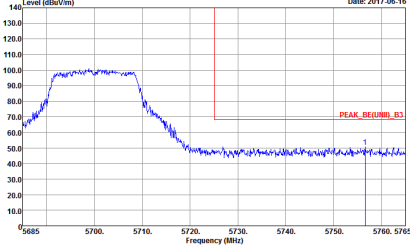
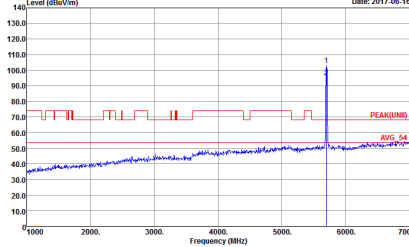


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 17 Power : 17	Left blank



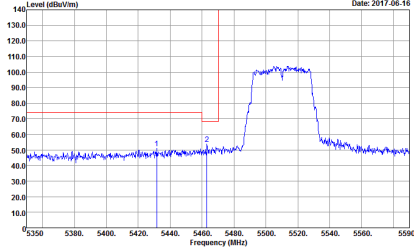
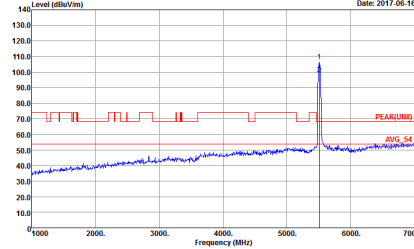
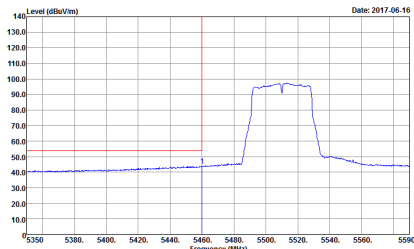
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNI1)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 18 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNI1) 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 18 Power : 17



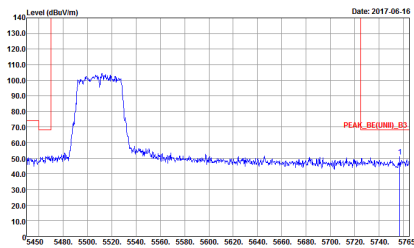
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 18 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 18 Power : 17



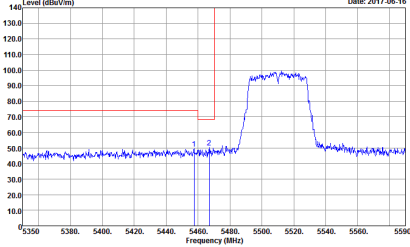
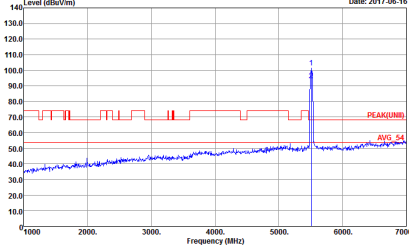
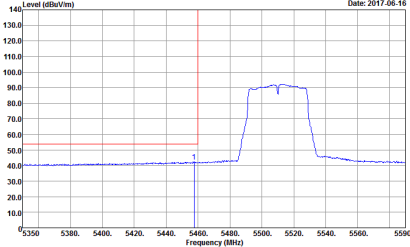
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 23 Power : 16.5	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 23 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AV6_BE(UNIT1)_B3 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 23 Power : 16.5	Left blank

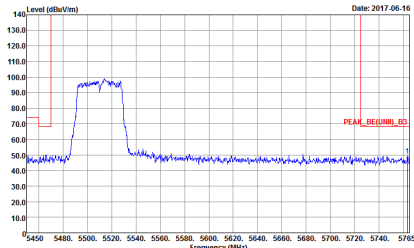


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 23 Power : 16.5	Left blank

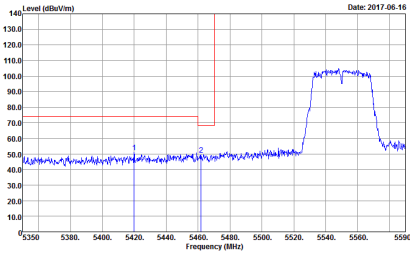
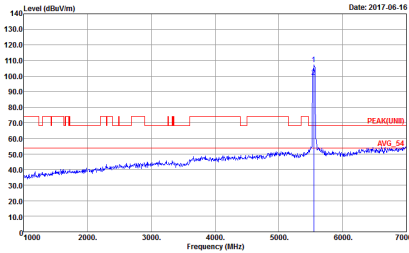
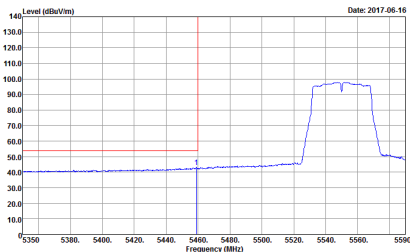


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z3 Power : 16.5	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z3 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : Z3 Power : 16.5	Left blank

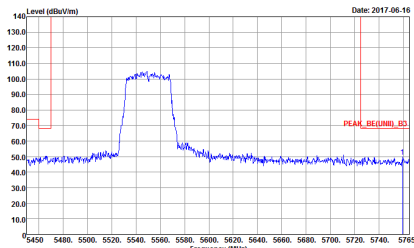


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : Z3 Power : 16.5	Left blank

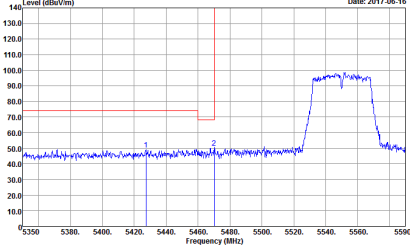
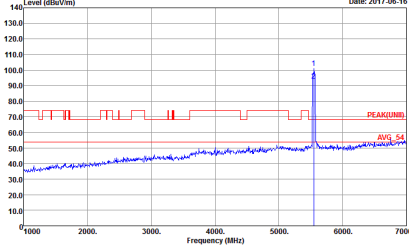
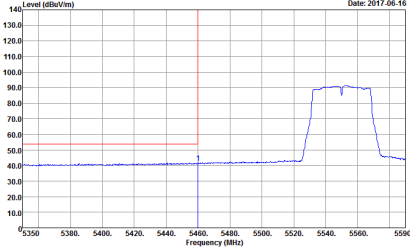


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE[UNII]_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5	 Site : 03CH13-HY Condition : PEAK[UNII] 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE[UNII]_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5	Left blank

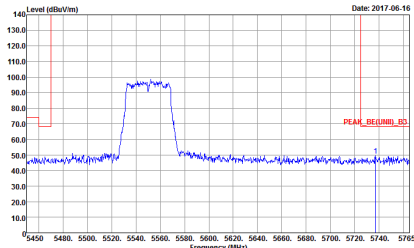


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 24 Power : 16.5	Left blank

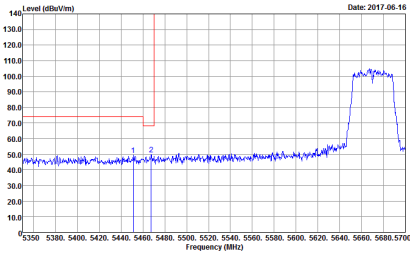
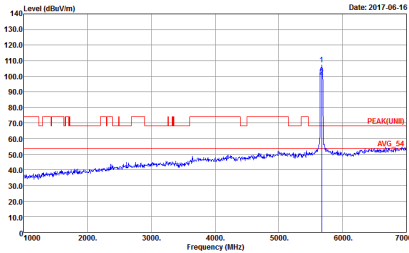
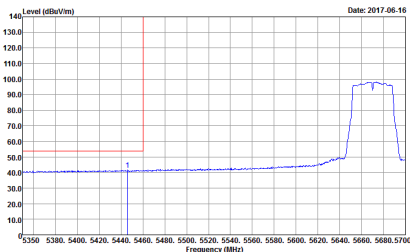


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 24 Power : 16.5	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 24 Power : 16.5	Left blank

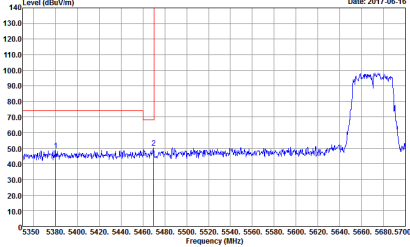
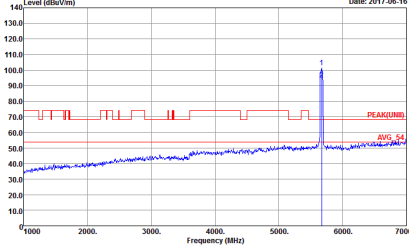
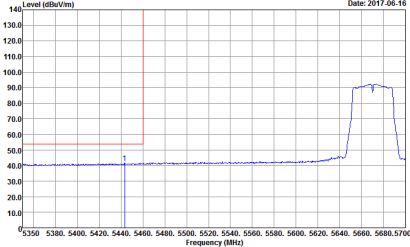


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17	Left blank

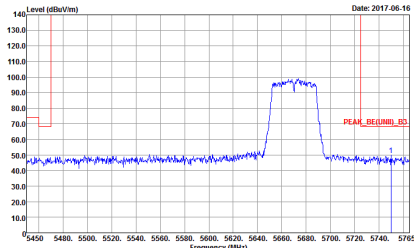


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT-Auto Project : Peak Mode : 752311 Power : 25 : 17	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE[UNIT]_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17	 Site : 03CH13-HY Condition : PEAK[UNIT] 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE[UNIT]_B3 3m HORN_91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 25 Power : 17	Left blank

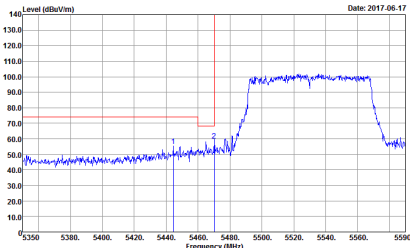
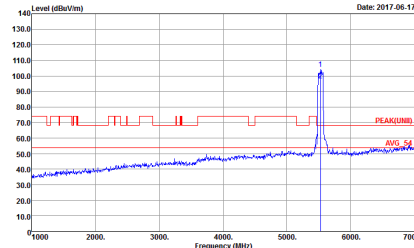
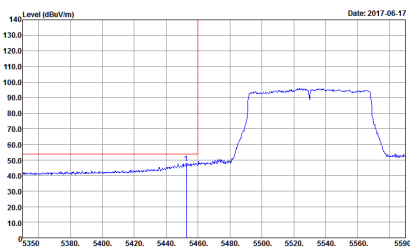


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 25 Power : 17	Left blank

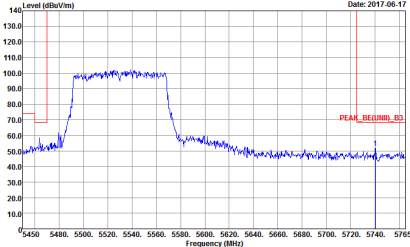


Band 3 5470~5725MHz

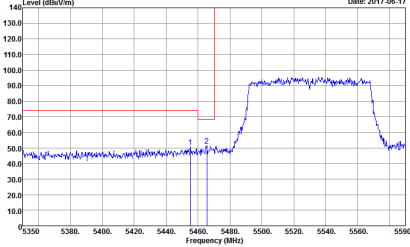
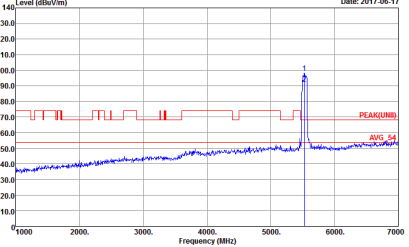
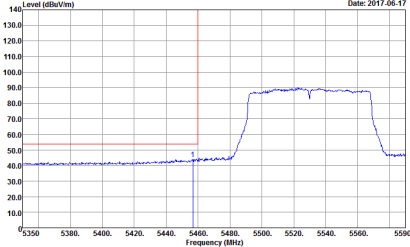
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 28 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 28 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 28 Power : 17	Left blank

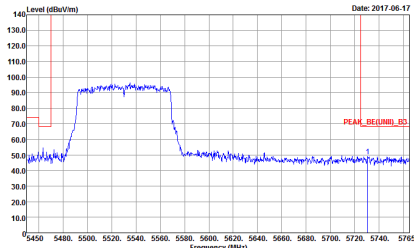


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1522 HORIZONTAL Detector : Peak Project : 752311 Mode : 28 Power : 17	Left blank

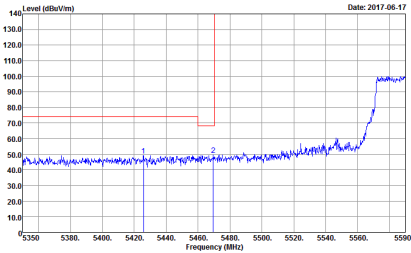
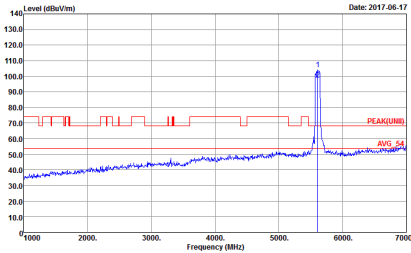
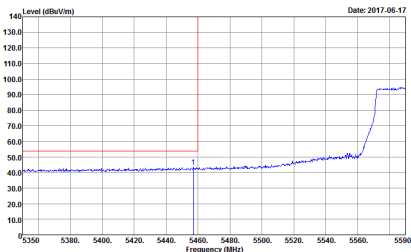


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 28 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 28 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 28 Power : 17	Left blank

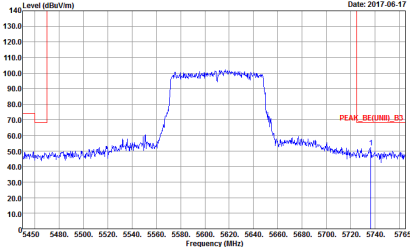


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 28 Power : 17	Left blank

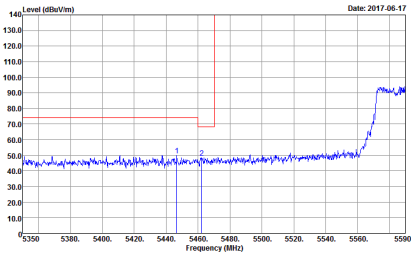
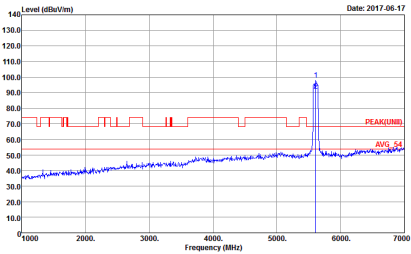
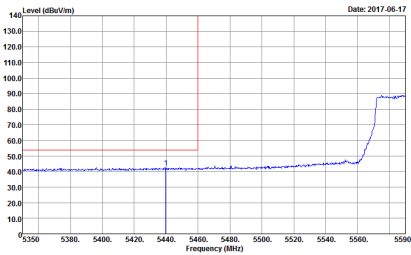


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1522 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17	Left blank

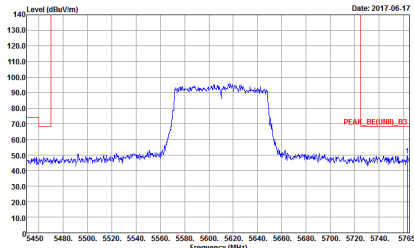


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UMI)_B3 3m HORN_91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT-Auto Project : Peak Mode : 752311 Power : 29 : 17	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1522 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 752311 Mode : 29 Power : 17	Left blank

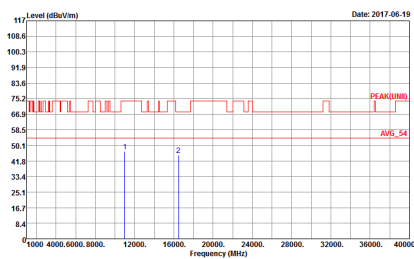
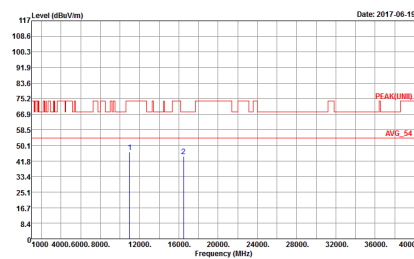


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1522 VERTICAL Detector : Peak Project : 752311 Mode : 29 Power : 17	Left blank

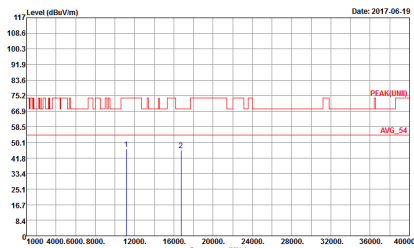
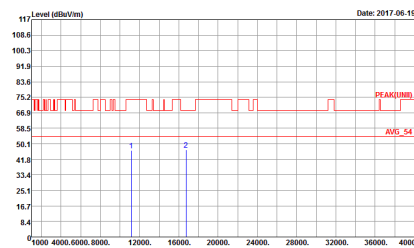


Band 3 - 5470~5725MHz

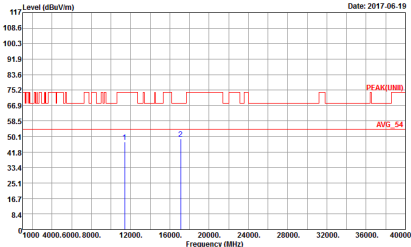
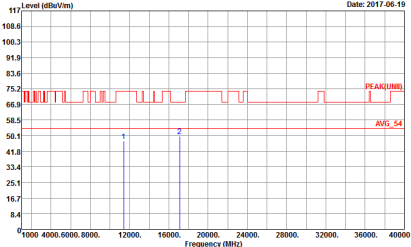
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 16 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 16 Power : 17



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UM) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 17 Power : 17	 Site : 03CH13-HY Condition : PEAK(UM) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 17 Power : 17

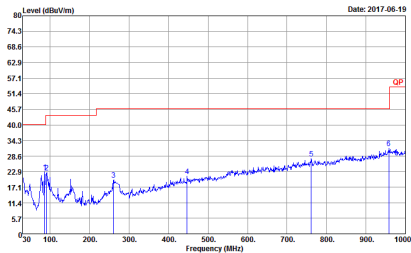
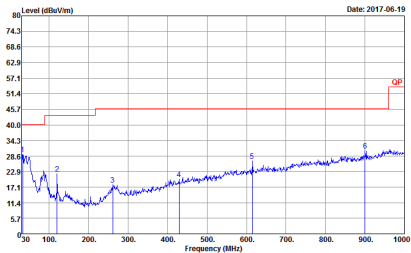


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 752311 Mode : 18 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 752311 Mode : 18 Power : 17



Emission below 1GHz

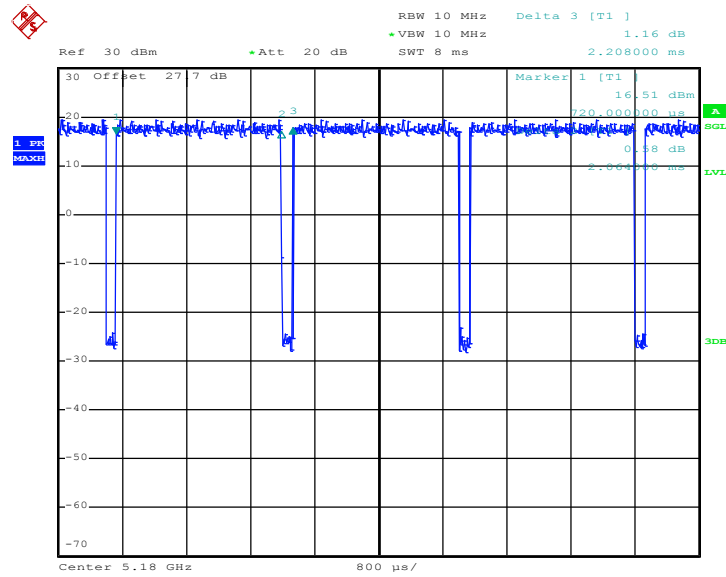
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BILO6_40103 HORIZONTAL Detector : Peak Project : 752311 Mode : 39	 Site : 03CH13-HY Condition : QP 3m BILO6_40103 VERTICAL Detector : Peak Project : 752311 Mode : 39

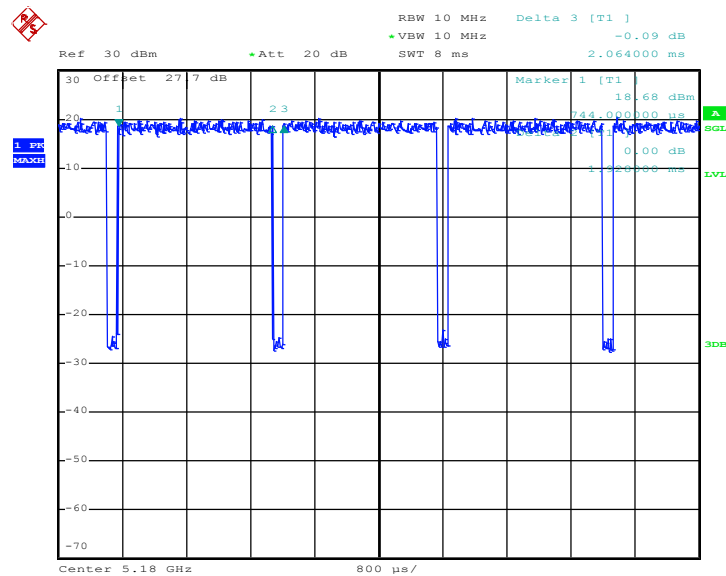


Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	93.478	2064	0.48	1kHz
5GHz 802.11n HT20	93.411	1928	0.52	1kHz
5GHz 802.11n HT40	87.407	944	1.06	3kHz
5GHz 802.11ac VHT20	93.798	1936	0.52	1kHz
5GHz 802.11ac VHT40	89.474	952	1.05	3kHz
5GHz 802.11ac VHT80	85.185	736	1.36	3kHz

802.11a


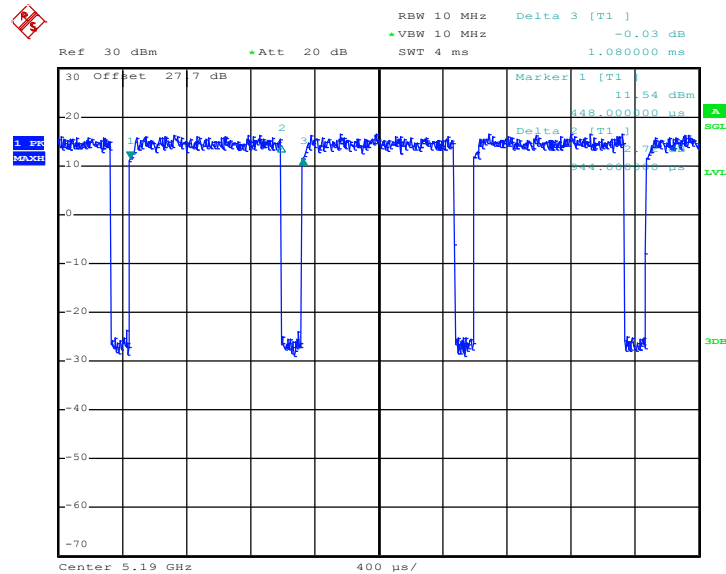
Date: 1.JUN.2017 02:01:30

802.11n HT20


Date: 1.JUN.2017 02:22:07

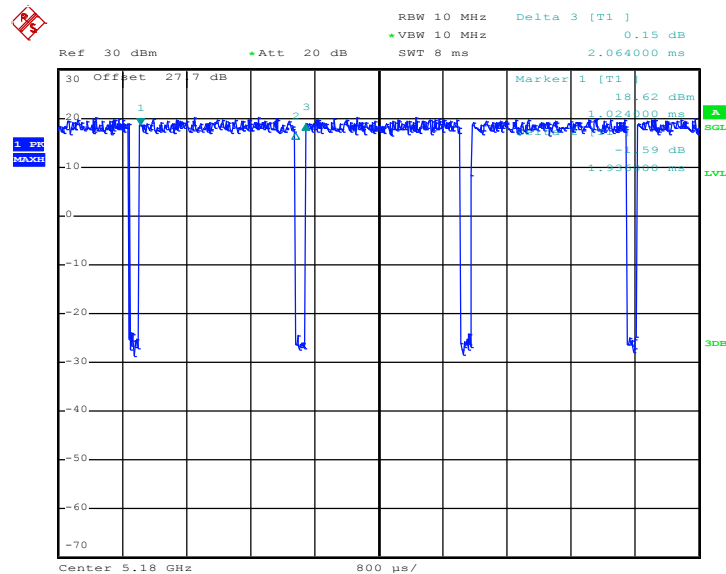


802.11n HT40



Date: 1.JUN.2017 02:52:15

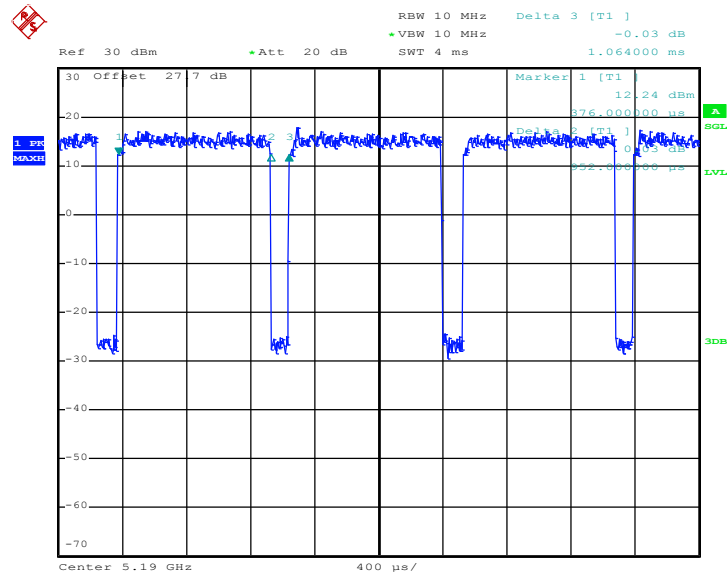
802.11ac VHT20



Date: 1.JUN.2017 02:34:41

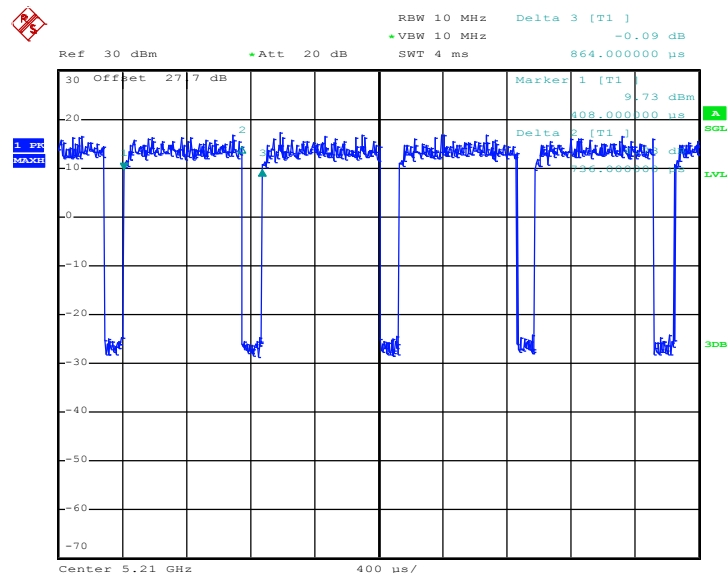


802.11ac VHT40



Date: 1.JUN.2017 03:02:43

802.11ac VHT80



Date: 1.JUN.2017 03:23:36