



FCC RF Test Report

APPLICANT : Getac Technology Corporation.
EQUIPMENT : WLAN Module
BRAND NAME : AMPAK
MODEL NAME : AP6234
FCC ID : QYLAP6234E
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Jan. 18, 2017 and testing was completed on Apr. 18, 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



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Page Number : 1 of 31
Report Issued Date : May 05, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15EWL Version 2.0



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR710507-03D	Rev. 01	Initial issue of report	May 05, 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	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 3.25 dB at 36.750 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.10 dB at 23.886 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

Getac Technology Corporation.

5F., Building A, No. 209, Sec.1, Nangang Rd.,Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

1.2 Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, NFC, and GPS.

Product Specification subjective to this standard	
Sample 1	WWAN SKU
Sample 2	WLAN SKU
Antenna Type	WWAN: PIFA Antenna WLAN: Chip Antenna Bluetooth: Chip Antenna GPS : PATCH Antenna NFC: Loop Antenna

SKU	WWAN	Wifi+BT	GPS	RFID
SKU1	Brand name: Sierra Model name: EM7455	Brand name: AMPAK Model name: AP6234	Brand name: Ublox Model name: MAX-M8Q	support
SKU 2	not support	Brand name: AMPAK Model name: AP6234	Brand name:Ublox Model name: MAX-M8Q	support

1.3 Modification of EUT

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

1.4 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.

1.5 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 v01r03.
- ♦ 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: The above Frequency and Channel in "*" were 802.11n HT40.

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

Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 2 Idle + Bluetooth Link + WLAN (2.4GHz) Link + RFID On + TF + TC for Sample1
	Mode 2 : LTE Band 2 Idle + Bluetooth Link + WLAN (5GHz) Link + RFID On + TF + TC for Sample1
	Mode 3 : Bluetooth Link + WLAN (2.4GHz) Link + RFID On + TF + TC for Sample 2
	Mode 4 : Bluetooth Link + WLAN (5GHz) Link + RFID On + TF + TC for Sample 2
Remark: - TC stands for Test Configuration, and consists of EX80 Cradle, USB flash drive (Front), USB Keyboard (side), USB Mouse (side), RJ-45 Link, and Adapter (WA-24Q12R). - TF stands for Test Function, and consists of H-Patten, MPEG4, GPS Rx, and Video Record (Rear Camera). - The worst case of conducted emission is mode 4; only the test data of it was reported.	



<For Sample 1>

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

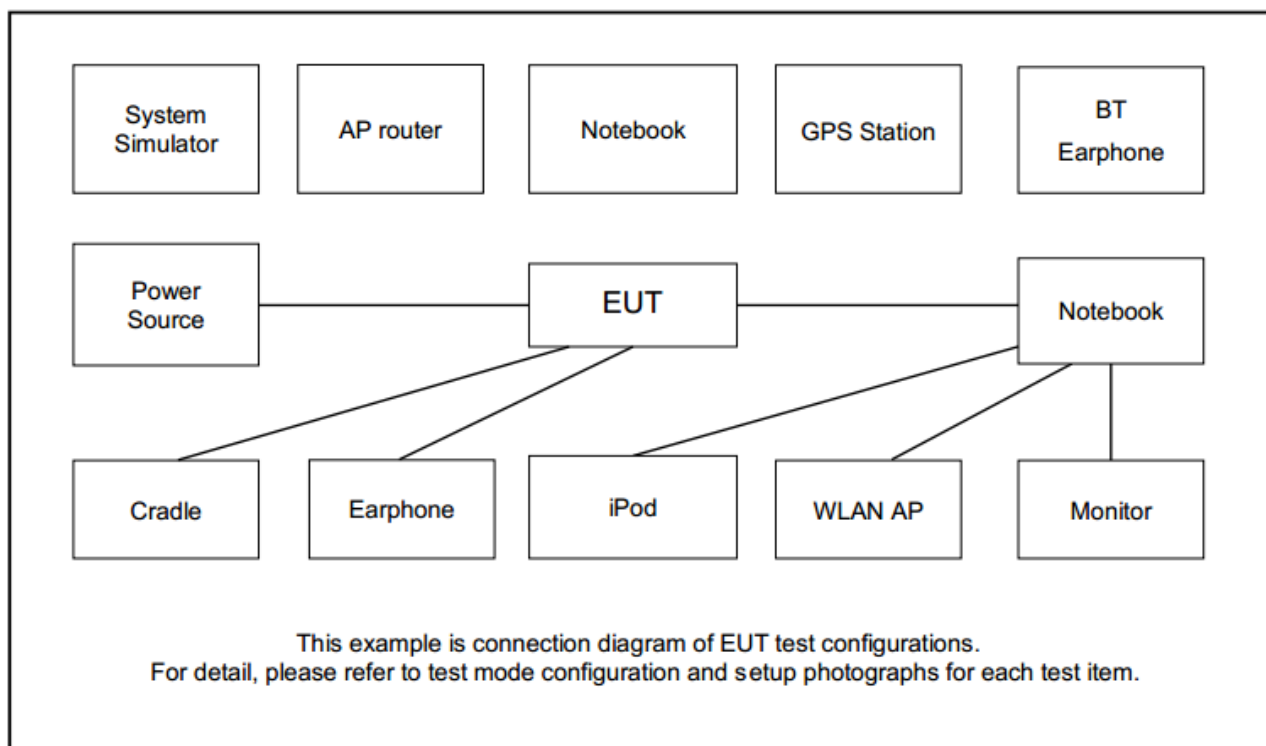
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

<For Sample 2>

Ch. #		Band I : 5150-5250 MHz
		802.11n HT40
L	Low	38
M	Middle	-
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.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	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
6.	USB Mouse	LOGITECH	M90	FCC DoC	shielded, 1.8m	N/A
7.	Keyboard	KRONE	SK900	FCC DoC	Shielded, 1.8m	N/A
8.	USB Flash Disk	Apacer	N/A	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, programmed RF utility “CMD”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

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.

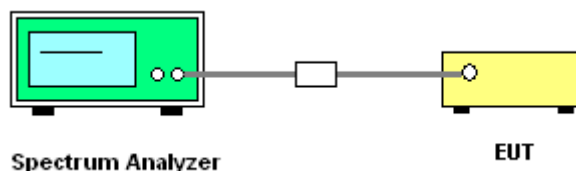
3.1.2 Measuring Instruments

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 v01r03.
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.

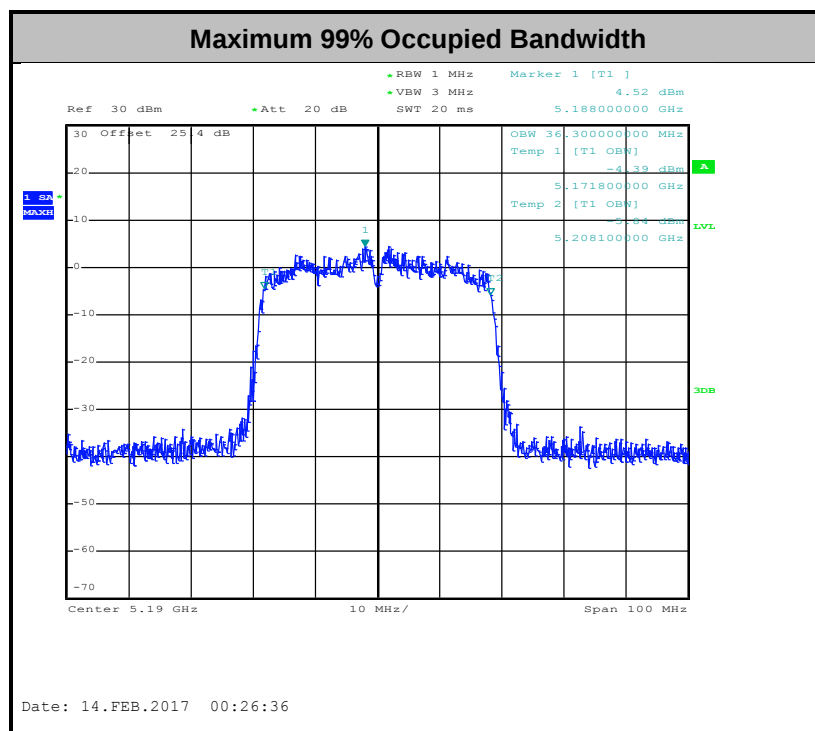
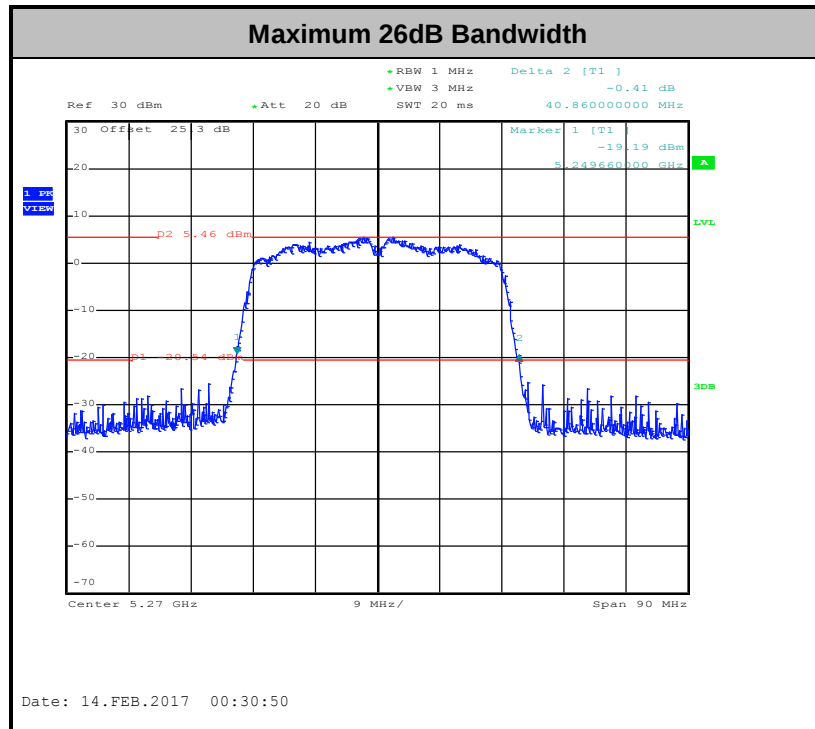
3.1.4 Test Setup





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

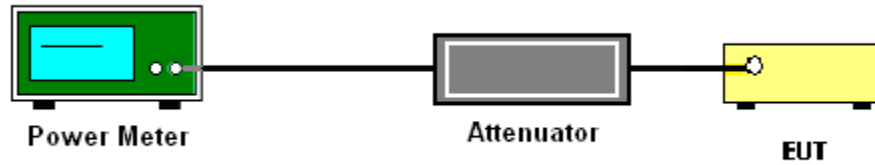
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

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 v01r03.

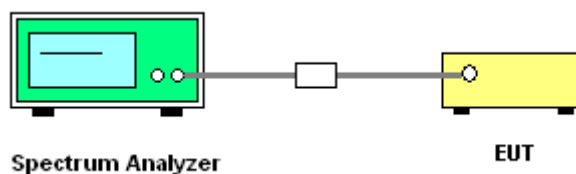
Section F) Maximum power spectral density.

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 v01r03.
 - 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.

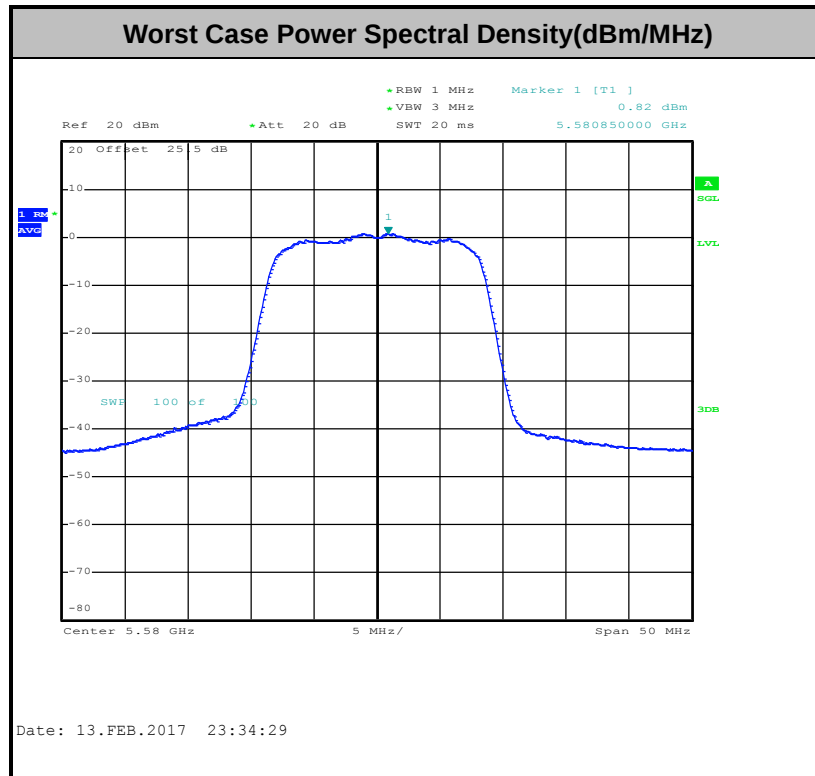
3.3.4 Test Setup





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 Radiated Emission 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 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 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)
-17	78.3
- 27	68.3

(3) KDB789033 D02 v01r03 G)2)c)

- (i) Section 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and 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. However, 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 dBm/MHz peak emission limit.
- (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). 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 alternative limit.

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 v01r03.

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

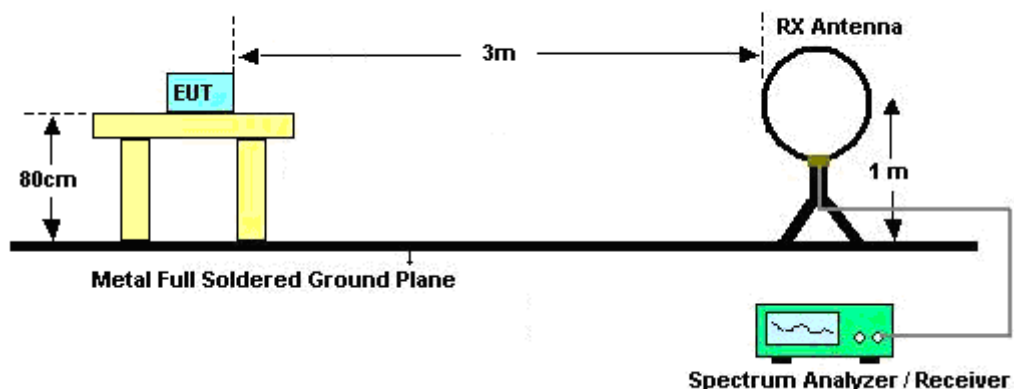
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

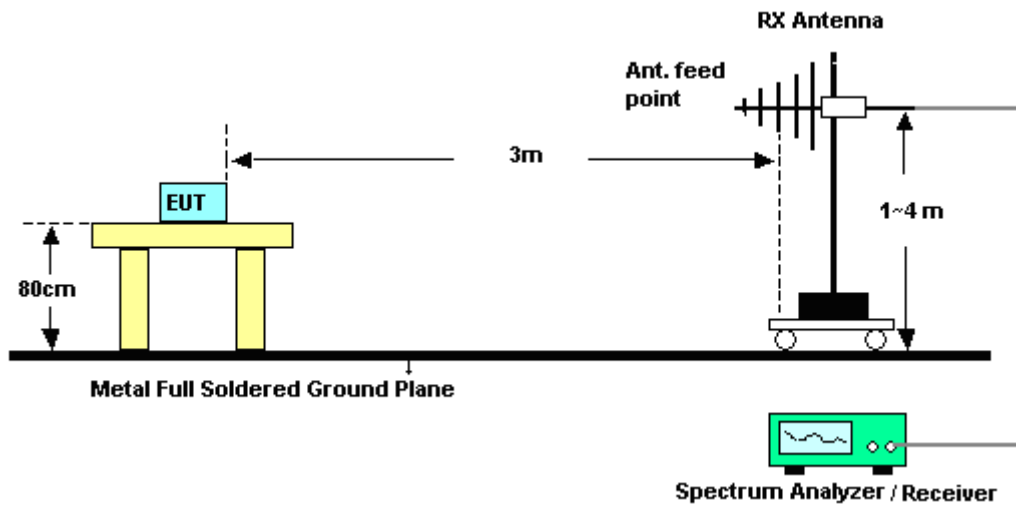
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

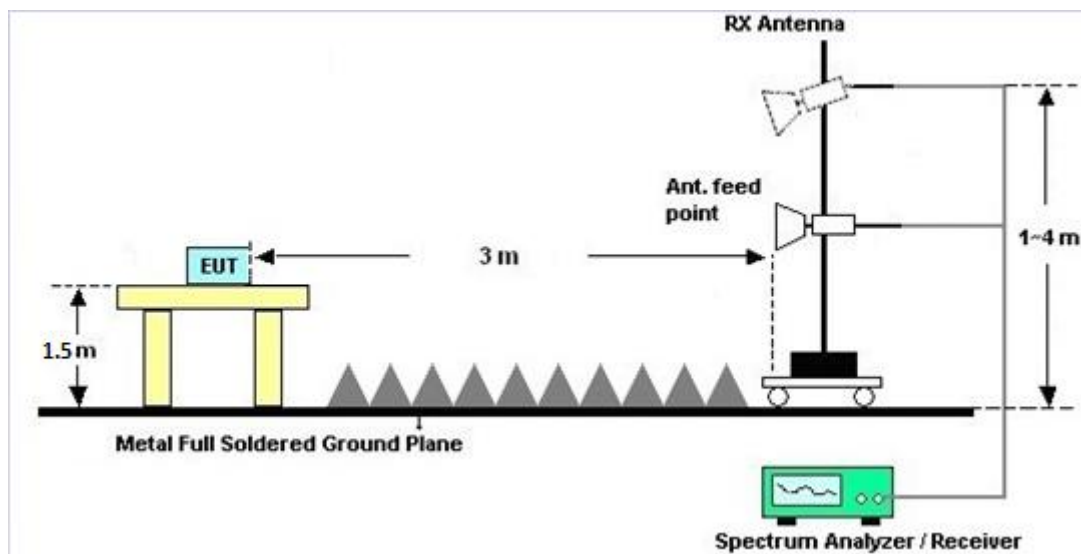
For radiated emissions below 30MHz



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 Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

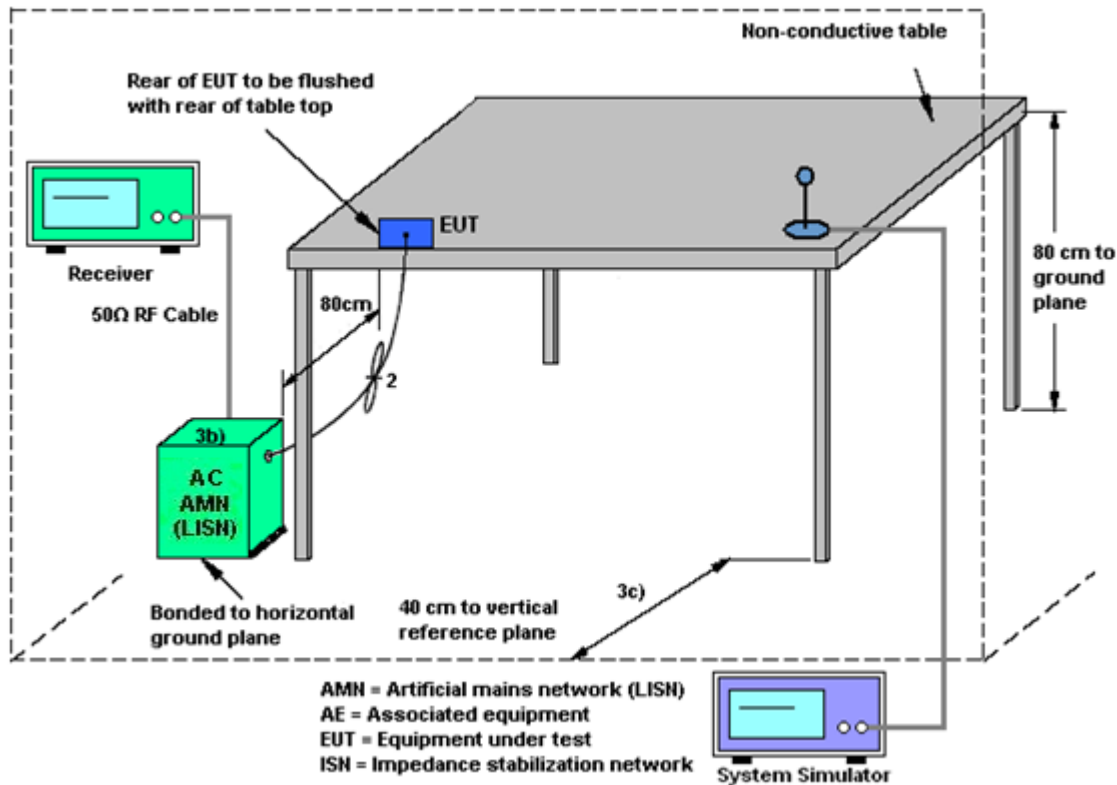
3.5.2 Measuring Instruments

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.

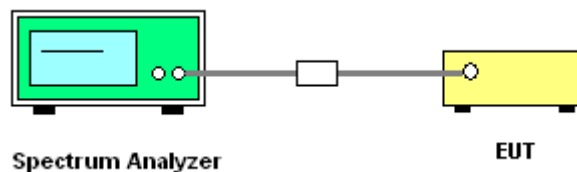
3.6.2 Measuring Instruments

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	Feb. 07, 2017 ~ Apr. 18, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Feb. 07, 2017 ~ Apr. 18, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Feb. 07, 2017 ~ Apr. 18, 2017	Jul. 16, 2017	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 01, 2016	Feb. 07, 2017 ~ Apr. 18, 2017	Nov. 30, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Feb. 07, 2017 ~ Apr. 18, 2017	Aug. 31, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 15, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Mar. 15, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Mar. 15, 2017	Nov. 28, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Oct. 19, 2018	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&04	30MHz to 1GHz	Jan. 07, 2017	Mar. 08, 2017 ~ Apr. 18, 2017	Jan. 06, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Apr. 24, 2017	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz- 40GHz	Nov. 08, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Nov. 07, 2017	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Dec. 20, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800	2025787	1GHZ~18GHZ	Feb. 13, 2017	Mar. 08, 2017 ~ Apr. 18, 2017	Feb. 12, 2018	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 09, 2017	Mar. 08, 2017 ~ Apr. 18, 2017	Jan. 08, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~40GHz	Jun. 14, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Jun. 13, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Mar. 08, 2017 ~ Apr. 18, 2017	Jan. 11, 2018	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 12, 2016	Mar. 08, 2017 ~ Apr. 18, 2017	Oct. 11, 2017	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 08, 2017 ~ Apr. 18, 2017	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 08, 2017 ~ Apr. 18, 2017	N/A	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
--	------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2017/2/7~2017/4/18	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	17.10	20.30	-	22.33		
11a	6Mbps	1	44	5220	17.00	20.49	-	22.30		
11a	6Mbps	1	48	5240	17.05	20.40	-	22.32		
HT20	MCS0	1	36	5180	18.00	21.10	-	22.55		
HT20	MCS0	1	44	5220	17.95	20.90	-	22.54		
HT20	MCS0	1	48	5240	17.95	21.05	-	22.54		
HT40	MCS0	1	38	5190	36.30	40.50	-	23.01		
HT40	MCS0	1	46	5230	36.20	40.50	-	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	0.33	10.93	24.00	1.18		Pass
11a	6Mbps	1	44	5220	0.33	10.78	24.00	1.18		Pass
11a	6Mbps	1	48	5240	0.33	10.73	24.00	1.18		Pass
HT20	MCS0	1	36	5180	0.36	10.41	24.00	1.18		Pass
HT20	MCS0	1	44	5220	0.36	10.06	24.00	1.18		Pass
HT20	MCS0	1	48	5240	0.36	10.01	24.00	1.18		Pass
HT40	MCS0	1	38	5190	0.65	10.56	24.00	1.18		Pass
HT40	MCS0	1	46	5230	0.65	10.55	24.00	1.18		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.33	0.09	11.00	1.18		Pass
11a	6Mbps	1	44	5220	0.33	0.06	11.00	1.18		Pass
11a	6Mbps	1	48	5240	0.33	0.05	11.00	1.18		Pass
HT20	MCS0	1	36	5180	0.36	-0.79	11.00	1.18		Pass
HT20	MCS0	1	44	5220	0.36	-0.64	11.00	1.18		Pass
HT20	MCS0	1	48	5240	0.36	-0.69	11.00	1.18		Pass
HT40	MCS0	1	38	5190	0.65	-2.84	11.00	1.18		Pass
HT40	MCS0	1	46	5230	0.65	-3.10	11.00	1.18		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	17.05	20.45	23.32	29.32	23.98	
11a	6M bps	1	60	5300	16.95	20.70	23.29	29.29	23.98	
11a	6M bps	1	64	5320	17.00	20.35	23.30	29.30	23.98	
HT20	MCS 0	1	52	5260	18.00	20.80	23.55	29.55	23.98	
HT20	MCS 0	1	60	5300	17.95	21.00	23.54	29.54	23.98	
HT20	MCS 0	1	64	5320	18.00	21.05	23.55	29.55	23.98	
HT40	MCS 0	1	54	5270	36.20	40.86	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.20	40.86	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	0.33	10.83	23.98	0.06	26.99	Pass
11a	6M bps	1	60	5300	0.33	10.86	23.98	0.06	26.99	Pass
11a	6M bps	1	64	5320	0.33	10.88	23.98	0.06	26.99	Pass
HT20	MCS 0	1	52	5260	0.36	10.36	23.98	0.06	26.99	Pass
HT20	MCS 0	1	60	5300	0.36	10.35	23.98	0.06	26.99	Pass
HT20	MCS 0	1	64	5320	0.36	10.39	23.98	0.06	26.99	Pass
HT40	MCS 0	1	54	5270	0.65	10.45	23.98	0.06	26.99	Pass
HT40	MCS 0	1	62	5310	0.65	10.55	23.98	0.06	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.33	0.02	11.00	0.06		Pass
11a	6M bps	1	60	5300	0.33	0.48	11.00	0.06		Pass
11a	6M bps	1	64	5320	0.33	0.49	11.00	0.06		Pass
HT20	MCS 0	1	52	5260	0.36	-0.65	11.00	0.06		Pass
HT20	MCS 0	1	60	5300	0.36	-0.13	11.00	0.06		Pass
HT20	MCS 0	1	64	5320	0.36	-0.16	11.00	0.06		Pass
HT40	MCS 0	1	54	5270	0.65	-2.81	11.00	0.06		Pass
HT40	MCS 0	1	62	5310	0.65	-2.45	11.00	0.06		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	16.95	20.35	23.29	29.29	23.98	
11a	6M bps	1	116	5580	17.00	20.60	23.30	29.30	23.98	
11a	6M bps	1	140	5700	17.00	20.50	23.30	29.30	23.98	
HT20	MCS 0	1	100	5500	18.00	21.10	23.55	29.55	23.98	
HT20	MCS 0	1	116	5580	18.00	21.10	23.55	29.55	23.98	
HT20	MCS 0	1	140	5700	17.95	20.80	23.54	29.54	23.98	
HT40	MCS 0	1	102	5510	36.20	40.50	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.30	40.68	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.20	40.86	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	0.33	11.63	23.98	2.92	26.99	Pass
11a	6M bps	1	116	5580	0.33	11.33	23.98	2.92	26.99	Pass
11a	6M bps	1	140	5700	0.33	11.23	23.98	2.92	26.99	Pass
HT20	MCS 0	1	100	5500	0.36	10.76	23.98	2.92	26.99	Pass
HT20	MCS 0	1	116	5580	0.36	10.43	23.98	2.92	26.99	Pass
HT20	MCS 0	1	140	5700	0.36	10.26	23.98	2.92	26.99	Pass
HT40	MCS 0	1	102	5510	0.65	11.12	23.98	2.92	26.99	Pass
HT40	MCS 0	1	110	5550	0.65	10.92	23.98	2.92	26.99	Pass
HT40	MCS 0	1	134	5670	0.65	10.60	23.98	2.92	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	0.33	0.91	11.00	2.92		Pass
11a	6M bps	1	116	5580	0.33	1.15	11.00	2.92		Pass
11a	6M bps	1	140	5700	0.33	0.95	11.00	2.92		Pass
HT20	MCS 0	1	100	5500	0.36	-0.33	11.00	2.92		Pass
HT20	MCS 0	1	116	5580	0.36	0.02	11.00	2.92		Pass
HT20	MCS 0	1	140	5700	0.36	-0.21	11.00	2.92		Pass
HT40	MCS 0	1	102	5510	0.65	-2.50	11.00	2.92		Pass
HT40	MCS 0	1	110	5550	0.65	-2.03	11.00	2.92		Pass
HT40	MCS 0	1	134	5670	0.65	-2.39	11.00	2.92		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	5179.950	-0.050	-9.65	50	7.4	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	-30	7.4	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	20	8.4	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	20	6	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	7.4	

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	5320.050	0.050	9.40	50	7.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	7.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	8.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	6	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	7.4	

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	5500.000	0.000	0.00	50	7.4	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	7.4	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	8.4	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	6	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	7.4	



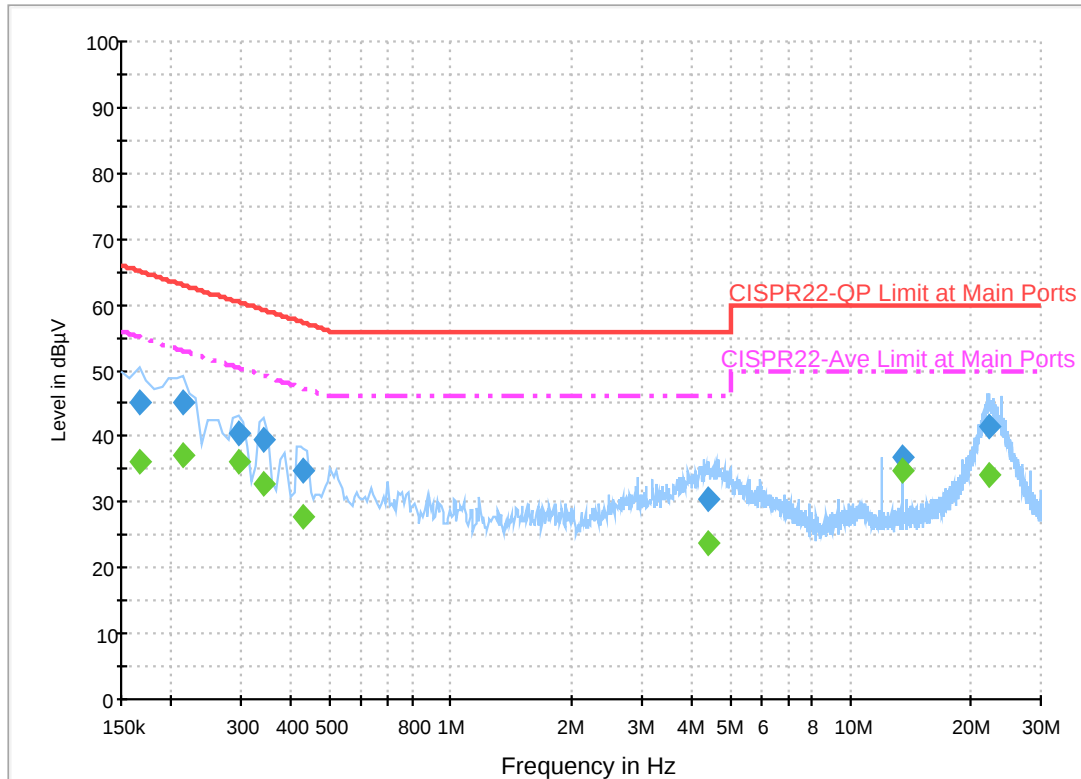
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	Temperature :	22~23°C
		Relative Humidity :	50~51%

EUT Information

Report NO : 710507-03
Test Mode : Mode 4
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)
0.166000	45.0	Off	L1	19.6	20.2	65.2
0.214000	45.2	Off	L1	19.6	17.8	63.0
0.294000	40.6	Off	L1	19.6	19.8	60.4
0.342000	39.3	Off	L1	19.6	19.9	59.2
0.430000	34.7	Off	L1	19.6	22.6	57.3
4.438000	30.3	Off	L1	19.7	25.7	56.0
13.558000	36.7	Off	L1	20.2	23.3	60.0
22.390000	41.3	Off	L1	20.7	18.7	60.0

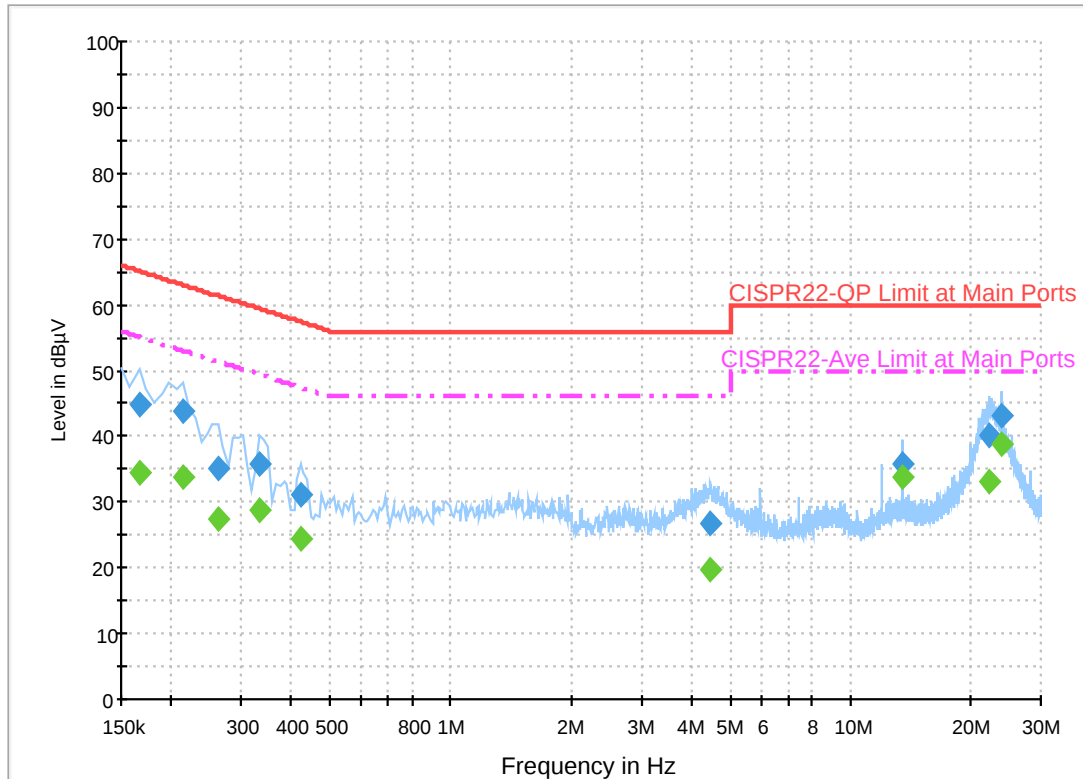
Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	36.1	Off	L1	19.6	19.1	55.2
0.214000	37.3	Off	L1	19.6	15.7	53.0
0.294000	36.2	Off	L1	19.6	14.2	50.4
0.342000	32.9	Off	L1	19.6	16.3	49.2
0.430000	27.6	Off	L1	19.6	19.7	47.3
4.438000	23.7	Off	L1	19.7	22.3	46.0
13.558000	34.7	Off	L1	20.2	15.3	50.0
22.390000	34.0	Off	L1	20.7	16.0	50.0

EUT Information

Report NO : 710507-03
Test Mode : Mode 4
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)
0.166000	44.7	Off	N	19.5	20.5	65.2
0.214000	43.8	Off	N	19.5	19.2	63.0
0.262000	35.1	Off	N	19.5	26.3	61.4
0.334000	35.9	Off	N	19.5	23.5	59.4
0.422000	31.0	Off	N	19.5	26.4	57.4
4.470000	26.6	Off	N	19.7	29.4	56.0
13.558000	35.9	Off	N	20.3	24.1	60.0
22.390000	40.3	Off	N	20.8	19.7	60.0
23.886000	43.0	Off	N	20.9	17.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	34.6	Off	N	19.5	20.6	55.2
0.214000	33.9	Off	N	19.5	19.1	53.0
0.262000	27.5	Off	N	19.5	23.9	51.4
0.334000	28.7	Off	N	19.5	20.7	49.4
0.422000	24.6	Off	N	19.5	22.8	47.4
4.470000	19.7	Off	N	19.7	26.3	46.0
13.558000	33.8	Off	N	20.3	16.2	50.0
22.390000	33.2	Off	N	20.8	16.8	50.0
23.886000	38.9	Off	N	20.9	11.1	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Bill Chang , and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	47~49%

<For Sample 1>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5144.82	53.38	-20.62	74	41.84	31.62	10.48	30.56	100	326	P	H
		5146.9	44.72	-9.28	54	33.18	31.62	10.48	30.56	100	326	A	H
	*	5180	102.84	-	-	91.2	31.65	10.55	30.56	100	326	P	H
	*	5180	95.13	-	-	83.49	31.65	10.55	30.56	100	326	A	H
													H
													H
		5138.84	55.76	-18.24	74	44.26	31.61	10.45	30.56	114	320	P	V
		5150	47.18	-6.82	54	35.64	31.62	10.48	30.56	114	320	A	V
	*	5180	105.43	-	-	93.79	31.65	10.55	30.56	114	320	P	V
	*	5180	97.87	-	-	86.23	31.65	10.55	30.56	114	320	A	V
													V
													V
802.11a CH 44 5220MHz		5044.72	50.97	-23.03	74	39.69	31.54	10.29	30.55	100	326	P	H
		5039	42.86	-11.14	54	31.58	31.54	10.29	30.55	100	326	A	H
	*	5220	102.88	-	-	92.27	31.67	9.51	30.57	100	326	P	H
	*	5220	95.38	-	-	84.77	31.67	9.51	30.57	100	326	A	H
		5436.96	50.5	-23.5	74	38.26	31.85	10.99	30.6	100	326	P	H
		5454.96	42.03	-11.97	54	29.79	31.86	10.98	30.6	100	326	A	H
		5054.6	52.98	-21.02	74	41.66	31.55	10.32	30.55	137	320	P	V
		5139.36	43.22	-10.78	54	31.72	31.61	10.45	30.56	137	320	A	V
	*	5220	103.62	-	-	93.01	31.67	9.51	30.57	137	320	P	V
	*	5220	96.78	-	-	86.17	31.67	9.51	30.57	137	320	A	V
		5442.48	50.97	-23.03	74	38.73	31.85	10.99	30.6	137	320	P	V
		5458.08	41.9	-12.1	54	29.66	31.86	10.98	30.6	137	320	A	V



802.11a CH 48 5240MHz		5045.76	52.09	-21.91	74	40.81	31.54	10.29	30.55	100	326	P	H
		5027.04	43	-11	54	31.76	31.53	10.25	30.54	100	326	A	H
	*	5240	101.42	-	-	90.67	31.69	9.64	30.58	100	326	P	H
	*	5240	93.79	-	-	83.04	31.69	9.64	30.58	100	326	A	H
		5448.96	50.02	-23.98	74	37.78	31.86	10.98	30.6	100	326	P	H
		5457.36	41.84	-12.16	54	29.6	31.86	10.98	30.6	100	326	A	H
		5127.4	51.99	-22.01	74	40.49	31.61	10.45	30.56	100	323	P	V
		5041.6	43.01	-10.99	54	31.73	31.54	10.29	30.55	100	323	A	V
	*	5240	103.71	-	-	92.96	31.69	9.64	30.58	100	323	P	V
	*	5240	96.56	-	-	85.81	31.69	9.64	30.58	100	323	A	V
		5403.84	51.12	-22.88	74	38.89	31.82	11.01	30.6	100	323	P	V
		5459.04	42.05	-11.95	54	29.81	31.86	10.98	30.6	100	323	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	44.33	-29.67	74	54.9	39.59	15.04	65.2	100	0	P	H
		15540	43.7	-30.3	74	50.79	38.75	18.14	63.98	100	0	P	H
													H
													H
		10360	43.18	-30.82	74	53.75	39.59	15.04	65.2	100	0	P	V
		15540	42.8	-31.2	74	49.89	38.75	18.14	63.98	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	44.78	-29.22	74	55.24	39.69	15.05	65.2	100	0	P	H
		15660	42.29	-31.71	74	49.72	38.58	18.23	64.24	100	0	P	H
													H
													H
		10440	45.95	-28.05	74	56.41	39.69	15.05	65.2	100	0	P	V
		15660	41.06	-32.94	74	48.49	38.58	18.23	64.24	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	45.11	-28.89	74	55.49	39.77	15.05	65.2	100	0	P	H
		15720	42.03	-31.97	74	49.64	38.49	18.29	64.39	100	0	P	H
													H
													H
		10480	45.26	-28.74	74	55.64	39.77	15.05	65.2	100	0	P	V
		15720	42.08	-31.92	74	49.69	38.49	18.29	64.39	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		5149.24	52.4	-21.6	74	40.86	31.62	10.48	30.56	100	325	P	H
		5149.5	45.23	-8.77	54	33.69	31.62	10.48	30.56	100	325	A	H
	*	5180	102.57	-	-	90.93	31.65	10.55	30.56	100	325	P	H
	*	5180	95.5	-	-	83.86	31.65	10.55	30.56	100	325	A	H
													H
													H
		5139.36	52.51	-21.49	74	41.01	31.61	10.45	30.56	112	321	P	V
		5149.5	46.39	-7.61	54	34.85	31.62	10.48	30.56	112	321	A	V
	*	5180	105.05	-	-	93.41	31.65	10.55	30.56	112	321	P	V
	*	5180	98.33	-	-	86.69	31.65	10.55	30.56	112	321	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5081.9	52.57	-21.43	74	41.2	31.57	10.35	30.55	100	325	P	H
		5105.04	43.13	-10.87	54	31.71	31.58	10.39	30.55	100	325	A	H
	*	5220	101.24	-	-	90.63	31.67	9.51	30.57	100	325	P	H
	*	5220	94.2	-	-	83.59	31.67	9.51	30.57	100	325	A	H
		5379.36	50.95	-23.05	74	38.86	31.81	10.87	30.59	100	325	P	H
		5459.04	42.13	-11.87	54	29.89	31.86	10.98	30.6	100	325	A	H
		5138.32	51.82	-22.18	74	40.32	31.61	10.45	30.56	118	322	P	V
		5143.78	43.63	-10.37	54	32.09	31.62	10.48	30.56	118	322	A	V
	*	5220	103.25	-	-	92.64	31.67	9.51	30.57	118	322	P	V
	*	5220	96.12	-	-	85.51	31.67	9.51	30.57	118	322	A	V
		5455.68	51.15	-22.85	74	38.91	31.86	10.98	30.6	118	322	P	V
		5437.92	42.07	-11.93	54	29.83	31.85	10.99	30.6	118	322	A	V



802.11n HT20 CH 48 5240MHz		5060.58	51.86	-22.14	74	40.54	31.55	10.32	30.55	100	325	P	H
		5070.72	42.87	-11.13	54	31.55	31.55	10.32	30.55	100	325	A	H
	*	5240	101.39	-	-	90.64	31.69	9.64	30.58	100	325	P	H
	*	5240	93.79	-	-	83.04	31.69	9.64	30.58	100	325	A	H
		5458.32	51.58	-22.42	74	39.34	31.86	10.98	30.6	100	325	P	H
		5442.96	42.12	-11.88	54	29.88	31.85	10.99	30.6	100	325	A	H
		5068.38	51.71	-22.29	74	40.39	31.55	10.32	30.55	122	322	P	V
		5051.48	42.96	-11.04	54	31.68	31.54	10.29	30.55	122	322	A	V
	*	5240	103.03	-	-	92.28	31.69	9.64	30.58	122	322	P	V
	*	5240	96.01	-	-	85.26	31.69	9.64	30.58	122	322	A	V
		5432.64	50.06	-23.94	74	37.82	31.85	10.99	30.6	122	322	P	V
		5457.84	42.33	-11.67	54	30.09	31.86	10.98	30.6	122	322	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	44.36	-29.64	74	54.93	39.59	15.04	65.2	100	0	P	H
		15540	43.34	-30.66	74	50.43	38.75	18.14	63.98	100	0	P	H
													H
													H
		10360	43.68	-30.32	74	54.25	39.59	15.04	65.2	100	0	P	V
		15540	43.22	-30.78	74	50.31	38.75	18.14	63.98	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	44.28	-29.72	74	54.74	39.69	15.05	65.2	100	0	P	H
		15660	41.66	-32.34	74	49.09	38.58	18.23	64.24	100	0	P	H
													H
													H
		10440	45.13	-28.87	74	55.59	39.69	15.05	65.2	100	0	P	V
		15660	41.82	-32.18	74	49.25	38.58	18.23	64.24	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	44.59	-29.41	74	54.97	39.77	15.05	65.2	100	0	P	H
		15720	42.41	-31.59	74	50.02	38.49	18.29	64.39	100	0	P	H
													H
													H
		10480	44.87	-29.13	74	55.25	39.77	15.05	65.2	100	0	P	V
		15720	42.16	-31.84	74	49.77	38.49	18.29	64.39	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		5145.34	54.68	-19.32	74	43.14	31.62	10.48	30.56	100	324	P	H
		5149.5	49.03	-4.97	54	37.49	31.62	10.48	30.56	100	324	A	H
	*	5190	100.26	-	-	88.63	31.65	10.55	30.57	100	324	P	H
	*	5190	93.46	-	-	81.83	31.65	10.55	30.57	100	324	A	H
		5447.52	50.87	-23.13	74	38.63	31.86	10.98	30.6	100	324	P	H
		5350.08	42.61	-11.39	54	30.82	31.78	10.6	30.59	100	324	A	H
		5147.16	55.26	-18.74	74	43.72	31.62	10.48	30.56	125	322	P	V
		5149.76	50.4	-3.6	54	38.86	31.62	10.48	30.56	125	322	A	V
	*	5190	102.38	-	-	90.75	31.65	10.55	30.57	125	322	P	V
	*	5190	95.8	-	-	84.17	31.65	10.55	30.57	125	322	A	V
		5454.24	51.69	-22.31	74	39.45	31.86	10.98	30.6	125	322	P	V
		5459.04	42.7	-11.3	54	30.46	31.86	10.98	30.6	125	322	A	V
802.11n HT40 CH 46 5230MHz		5022.1	52.06	-21.94	74	40.82	31.53	10.25	30.54	100	324	P	H
		5133.64	44.04	-9.96	54	32.54	31.61	10.45	30.56	100	324	A	H
	*	5230	99.09	-	-	88.33	31.69	9.64	30.57	100	324	P	H
	*	5230	92.19	-	-	81.43	31.69	9.64	30.57	100	324	A	H
		5384.16	50.19	-23.81	74	38.1	31.81	10.87	30.59	100	324	P	H
		5394.48	42.89	-11.11	54	30.81	31.81	10.87	30.6	100	324	A	H
		5141.96	52.12	-21.88	74	40.58	31.62	10.48	30.56	139	321	P	V
		5148.2	45.14	-8.86	54	33.6	31.62	10.48	30.56	139	321	A	V
	*	5230	101.28	-	-	90.52	31.69	9.64	30.57	139	321	P	V
	*	5230	94.59	-	-	83.83	31.69	9.64	30.57	139	321	A	V
		5436.48	50.8	-23.2	74	38.56	31.85	10.99	30.6	139	321	P	V
		5450.88	43.04	-10.96	54	30.8	31.86	10.98	30.6	139	321	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 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		10380	44.75	-29.25	74	55.3	39.61	15.04	65.2	100	0	P	H
		15570	42.13	-31.87	74	49.31	38.7	18.17	64.05	100	0	P	H
													H
													H
		10380	44.36	-29.64	74	54.91	39.61	15.04	65.2	100	0	P	V
		15570	43.29	-30.71	74	50.47	38.7	18.17	64.05	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	44.35	-29.65	74	54.78	39.72	15.05	65.2	100	0	P	H
		15690	41.39	-32.61	74	48.92	38.53	18.26	64.32	100	0	P	H
													H
													H
		10460	43.88	-30.12	74	54.31	39.72	15.05	65.2	100	0	P	V
		15690	41.29	-32.71	74	48.82	38.53	18.26	64.32	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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)
802.11a CH 52 5260MHz		5149.24	51.87	-22.13	74	40.33	31.62	10.48	30.56	110	163	P	H
		5094.12	42.68	-11.32	54	31.26	31.58	10.39	30.55	110	163	A	H
	*	5260	101.34	-	-	90.29	31.71	9.92	30.58	110	163	P	H
	*	5260	94.32	-	-	83.27	31.71	9.92	30.58	110	163	A	H
		5415.12	51.06	-22.94	74	38.83	31.83	11	30.6	110	163	P	H
		5459.28	42.08	-11.92	54	29.84	31.86	10.98	30.6	110	163	A	H
		5021.84	51.55	-22.45	74	40.31	31.53	10.25	30.54	107	268	P	V
		5051.48	42.67	-11.33	54	31.39	31.54	10.29	30.55	107	268	A	V
	*	5260	103.29	-	-	92.24	31.71	9.92	30.58	107	268	P	V
	*	5260	96.6	-	-	85.55	31.71	9.92	30.58	107	268	A	V
		5458.32	50.84	-23.16	74	38.6	31.86	10.98	30.6	107	268	P	V
		5459.52	42.13	-11.87	54	29.89	31.86	10.98	30.6	107	268	A	V
802.11a CH 60 5300MHz		5030.16	51.38	-22.62	74	40.14	31.53	10.25	30.54	100	326	P	H
		5033.02	42.62	-11.38	54	31.38	31.53	10.25	30.54	100	326	A	H
	*	5300	102.11	-	-	90.76	31.74	10.19	30.58	100	326	P	H
	*	5300	95.04	-	-	83.69	31.74	10.19	30.58	100	326	A	H
		5403.36	51.78	-22.22	74	39.55	31.82	11.01	30.6	100	326	P	H
		5379.84	43.92	-10.08	54	31.83	31.81	10.87	30.59	100	326	A	H
		5094.9	50.94	-23.06	74	39.52	31.58	10.39	30.55	134	326	P	V
		5062.4	42.76	-11.24	54	31.44	31.55	10.32	30.55	134	326	A	V
	*	5300	103.61	-	-	92.26	31.74	10.19	30.58	134	326	P	V
	*	5300	96.67	-	-	85.32	31.74	10.19	30.58	134	326	A	V
		5458.32	51.6	-22.4	74	39.36	31.86	10.98	30.6	134	326	P	V
		5380.08	44.22	-9.78	54	32.13	31.81	10.87	30.59	134	326	A	V



802.11a CH 64 5320MHz	*	5320	101.83	-	-	90.34	31.75	10.33	30.59	100	324	P	H
	*	5320	94.79	-	-	83.3	31.75	10.33	30.59	100	324	A	H
		5369.52	52.17	-21.83	74	40.23	31.79	10.74	30.59	100	324	P	H
		5350.8	43.79	-10.21	54	32	31.78	10.6	30.59	100	324	A	H
												P	H
												A	H
	*	5320	103.26	-	-	91.77	31.75	10.33	30.59	154	328	P	V
	*	5320	96.59	-	-	85.1	31.75	10.33	30.59	154	328	A	V
		5360.16	54.14	-19.86	74	42.35	31.78	10.6	30.59	154	328	P	V
		5399.76	44.94	-9.06	54	32.71	31.82	11.01	30.6	154	328	A	V
												P	V
												A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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)
802.11a CH 52 5260MHz		10520	44.84	-29.16	74	55.16	39.82	15.06	65.2	100	0	P	H
		15780	40.83	-33.17	74	48.6	38.41	18.33	64.51	100	0	P	H
													H
													H
		10520	44.52	-29.48	74	54.84	39.82	15.06	65.2	100	0	P	V
		15780	40.86	-33.14	74	48.63	38.41	18.33	64.51	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	45.89	-28.11	74	56.08	39.92	15.07	65.18	100	0	P	H
		15900	41.77	-32.23	74	49.87	38.24	18.43	64.77	100	0	P	H
													H
													H
		10600	45.38	-28.62	74	55.57	39.92	15.07	65.18	100	0	P	V
		15900	41.32	-32.68	74	49.42	38.24	18.43	64.77	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	43.3	-30.7	74	53.42	39.97	15.08	65.17	100	0	P	H
		15960	42.67	-31.33	74	50.96	38.15	18.48	64.92	100	0	P	H
													H
													H
		10640	42.86	-31.14	74	52.98	39.97	15.08	65.17	100	0	P	V
		15960	42.43	-31.57	74	50.72	38.15	18.48	64.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		5108.68	51.16	-22.84	74	39.7	31.59	10.42	30.55	100	325	P	H
		5048.1	42.64	-11.36	54	31.36	31.54	10.29	30.55	100	325	A	H
	*	5260	100.54	-	-	89.49	31.71	9.92	30.58	100	325	P	H
	*	5260	93.43	-	-	82.38	31.71	9.92	30.58	100	325	A	H
		5429.76	49.7	-24.3	74	37.46	31.85	10.99	30.6	100	325	P	H
		5451.6	42.36	-11.64	54	30.12	31.86	10.98	30.6	100	325	A	H
		5066.04	52.49	-21.51	74	41.17	31.55	10.32	30.55	149	325	P	V
		5075.14	42.69	-11.31	54	31.32	31.57	10.35	30.55	149	325	A	V
	*	5260	102.87	-	-	91.82	31.71	9.92	30.58	149	325	P	V
	*	5260	96	-	-	84.95	31.71	9.92	30.58	149	325	A	V
		5360.64	51.4	-22.6	74	39.46	31.79	10.74	30.59	149	325	P	V
		5454.72	42.02	-11.98	54	29.78	31.86	10.98	30.6	149	325	A	V
802.11n HT20 CH 60 5300MHz		5033.02	51.81	-22.19	74	40.57	31.53	10.25	30.54	100	325	P	H
		5078.26	42.76	-11.24	54	31.39	31.57	10.35	30.55	100	325	A	H
	*	5300	101.51	-	-	90.16	31.74	10.19	30.58	100	325	P	H
	*	5300	94.16	-	-	82.81	31.74	10.19	30.58	100	325	A	H
		5381.52	51.43	-22.57	74	39.34	31.81	10.87	30.59	100	325	P	H
		5380.56	43.36	-10.64	54	31.27	31.81	10.87	30.59	100	325	A	H
		5008.32	51.55	-22.45	74	40.36	31.51	10.22	30.54	172	326	P	V
		5067.08	42.74	-11.26	54	31.42	31.55	10.32	30.55	172	326	A	V
	*	5300	102.7	-	-	91.35	31.74	10.19	30.58	172	326	P	V
	*	5300	95.91	-	-	84.56	31.74	10.19	30.58	172	326	A	V
		5449.92	51.35	-22.65	74	39.11	31.86	10.98	30.6	172	326	P	V
		5380.08	43.8	-10.2	54	31.71	31.81	10.87	30.59	172	326	A	V



802.11n HT20 CH 64 5320MHz	*	5320	101.07	-	-	89.58	31.75	10.33	30.59	100	324	P	H
	*	5320	94.03	-	-	82.54	31.75	10.33	30.59	100	324	A	H
		5352.64	51.53	-22.47	74	39.74	31.78	10.6	30.59	100	324	P	H
		5400.16	43.31	-10.69	54	31.08	31.82	11.01	30.6	100	324	A	H
													H
													H
	*	5320	102.11	-	-	90.62	31.75	10.33	30.59	172	327	P	V
	*	5320	95.71	-	-	84.22	31.75	10.33	30.59	172	327	A	V
		5352.96	53.55	-20.45	74	41.76	31.78	10.6	30.59	172	327	P	V
		5400.96	44.06	-9.94	54	31.83	31.82	11.01	30.6	172	327	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	45.66	-28.34	74	55.98	39.82	15.06	65.2	100	0	P	H
		15780	42.02	-31.98	74	49.79	38.41	18.33	64.51	100	0	P	H
													H
													H
		10520	44.6	-29.4	74	54.92	39.82	15.06	65.2	100	0	P	V
		15780	41.06	-32.94	74	48.83	38.41	18.33	64.51	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	46.02	-27.98	74	56.21	39.92	15.07	65.18	100	0	P	H
		15900	42.91	-31.09	74	51.01	38.24	18.43	64.77			P	H
													H
													H
		10600	44.99	-29.01	74	55.18	39.92	15.07	65.18	100	0	P	V
		15900	41.63	-32.37	74	49.73	38.24	18.43	64.77	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	43.76	-30.24	74	53.88	39.97	15.08	65.17	100	0	P	H
		15960	42.17	-31.83	74	50.46	38.15	18.48	64.92	100	0	P	H
													H
													H
		10640	43.11	-30.89	74	53.23	39.97	15.08	65.17	100	0	P	V
		15960	41.77	-32.23	74	50.06	38.15	18.48	64.92	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		5030.16	51.31	-22.69	74	40.07	31.53	10.25	30.54	100	326	P	H
		5076.7	43.34	-10.66	54	31.97	31.57	10.35	30.55	100	326	A	H
	*	5270	98.74	-	-	87.69	31.71	9.92	30.58	100	326	P	H
	*	5270	91.56	-	-	80.51	31.71	9.92	30.58	100	326	A	H
		5397.36	53.18	-20.82	74	40.95	31.82	11.01	30.6	100	326	P	H
		5352.72	44.05	-9.95	54	32.26	31.78	10.6	30.59	100	326	A	H
		5077.22	51.42	-22.58	74	40.05	31.57	10.35	30.55	171	327	P	V
		5070.2	43.55	-10.45	54	32.23	31.55	10.32	30.55	171	327	A	V
	*	5270	100.85	-	-	89.8	31.71	9.92	30.58	171	327	P	V
	*	5270	93.98	-	-	82.93	31.71	9.92	30.58	171	327	A	V
		5356.32	52.49	-21.51	74	40.7	31.78	10.6	30.59	171	327	P	V
		5351.76	44.84	-9.16	54	33.05	31.78	10.6	30.59	171	327	A	V
802.11n HT40 CH 62 5310MHz		5016.12	51.92	-22.08	74	40.73	31.51	10.22	30.54	105	327	P	H
		5051.48	43.64	-10.36	54	32.36	31.54	10.29	30.55	105	327	A	H
	*	5310	100.16	-	-	88.66	31.75	10.33	30.58	105	327	P	H
	*	5310	93.03	-	-	81.53	31.75	10.33	30.58	105	327	A	H
		5377.92	51.37	-22.63	74	39.28	31.81	10.87	30.59	105	327	P	H
		5350.08	45.3	-8.7	54	33.51	31.78	10.6	30.59	105	327	A	H
		5131.56	51.27	-22.73	74	39.77	31.61	10.45	30.56	135	326	P	V
		5093.08	43.6	-10.4	54	32.18	31.58	10.39	30.55	135	326	A	V
	*	5310	101.68	-	-	90.18	31.75	10.33	30.58	135	326	P	V
	*	5310	94.63	-	-	83.13	31.75	10.33	30.58	135	326	A	V
		5351.52	57.39	-16.61	74	45.6	31.78	10.6	30.59	135	326	P	V
		5350.32	46.99	-7.01	54	35.2	31.78	10.6	30.59	135	326	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		10540	43.52	-30.48	74	53.81	39.84	15.06	65.19	100	0	P	H
		15810	41.18	-32.82	74	49.03	38.37	18.36	64.58	100	0	P	H
													H
													H
		10540	43.71	-30.29	74	54	39.84	15.06	65.19	100	0	P	V
		15810	42.88	-31.12	74	50.73	38.37	18.36	64.58	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	44.41	-29.59	74	54.58	39.94	15.07	65.18	100	0	P	H
		15930	40.64	-33.36	74	48.84	38.2	18.45	64.85	100	0	P	H
													H
													H
		10620	44.89	-29.11	74	55.06	39.94	15.07	65.18	100	0	P	V
		15930	41.07	-32.93	74	49.27	38.2	18.45	64.85	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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)
802.11a CH 100 5500MHz		5445.84	52.04	-21.96	74	39.8	31.86	10.98	30.6	129	350	P	H
		5468.4	52.8	-15.4	68.2	40.57	31.87	10.97	30.61	129	350	P	H
		5459.28	44.26	-9.74	54	32.02	31.86	10.98	30.6	129	350	A	H
	*	5500	101.18	-	-	88.94	31.9	10.95	30.61	129	350	P	H
	*	5500	93.98	-	-	81.74	31.9	10.95	30.61	129	350	A	H
													H
		5459.92	52.1	-21.9	74	39.86	31.86	10.98	30.6	101	270	P	V
		5468.72	52.2	-16	68.2	39.97	31.87	10.97	30.61	101	270	P	V
		5458.64	44.09	-9.91	54	31.85	31.86	10.98	30.6	101	270	A	V
	*	5500	101.13	-	-	88.89	31.9	10.95	30.61	101	270	P	V
	*	5500	93.83	-	-	81.59	31.9	10.95	30.61	101	270	A	V
													V
802.11a CH 116 5580MHz		5439.76	50.73	-23.27	74	38.49	31.85	10.99	30.6	148	349	P	H
		5469.76	50.72	-17.48	68.2	38.49	31.87	10.97	30.61	148	349	P	H
		5458	42.12	-11.88	54	29.88	31.86	10.98	30.6	148	349	A	H
	*	5580	102.85	-	-	90.58	32	10.91	30.64	148	349	P	H
	*	5580	95.92	-	-	83.65	32	10.91	30.64	148	349	A	H
		5725.8	50.87	-17.33	68.2	38.3	32.21	11.07	30.71	148	349	P	H
		5410.48	50.14	-23.86	74	37.91	31.82	11.01	30.6	103	270	P	V
		5462.32	50.26	-17.94	68.2	38.02	31.86	10.98	30.6	103	270	P	V
		5459.44	42.12	-11.88	54	29.88	31.86	10.98	30.6	103	270	A	V
	*	5580	101.5	-	-	89.23	32	10.91	30.64	103	270	P	V
	*	5580	94.52	-	-	82.25	32	10.91	30.64	103	270	A	V
		5763.95	51.47	-16.73	68.2	38.82	32.26	11.13	30.74	103	270	P	V



802.11a CH 140 5700MHz	*	5700	102.17	-	-	89.68	32.17	11.02	30.7	158	348	P	H
	*	5700	95.11	-	-	82.62	32.17	11.02	30.7	158	348	A	H
		5725.72	60.25	-7.95	68.2	47.68	32.21	11.07	30.71	158	348	P	H
													H
													H
													H
	*	5700	103.1	-	-	90.61	32.17	11.02	30.7	104	302	P	V
	*	5700	96.16	-	-	83.67	32.17	11.02	30.7	104	302	A	V
		5726.12	60.47	-7.73	68.2	47.9	32.21	11.07	30.71	104	302	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	44.47	-29.53	74	54.04	40.4	15.13	65.1	100	0	P	H
		16500	43.36	-24.84	68.2	50.04	39.5	18.92	65.1	100	0	P	H
													H
													H
		11000	44.99	-29.01	74	54.56	40.4	15.13	65.1	100	0	P	V
		16500	44	-24.2	68.2	50.68	39.5	18.92	65.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	46.06	-27.94	74	55.73	40.37	15.16	65.2			P	H
		16740	42.6	-25.6	68.2	48.5	39.84	19.12	64.86	100	0	P	H
													H
													H
		11160	44.47	-29.53	74	54.14	40.37	15.16	65.2	100	0	P	V
		16740	42.39	-25.81	68.2	48.29	39.84	19.12	64.86	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	43.53	-30.47	74	53.36	40.32	15.19	65.34	100	0	P	H
		17100	47.39	-20.81	68.2	51.86	40.58	19.41	64.46	100	0	P	H
													H
													H
		11400	42.84	-31.16	74	52.67	40.32	15.19	65.34	100	0	P	V
		17100	47.19	-21.01	68.2	51.66	40.58	19.41	64.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		5374	51.54	-22.46	74	39.6	31.79	10.74	30.59	136	347	P	H
		5468.4	52	-16.2	68.2	39.77	31.87	10.97	30.61	136	347	P	H
		5458.64	43.76	-10.24	54	31.52	31.86	10.98	30.6	136	347	A	H
	*	5500	100.44	-	-	88.2	31.9	10.95	30.61	136	347	P	H
	*	5500	93.29	-	-	81.05	31.9	10.95	30.61	136	347	A	H
													H
		5446.16	53.87	-20.13	74	41.63	31.86	10.98	30.6	149	346	P	V
		5462.64	52.16	-16.04	68.2	39.93	31.87	10.97	30.61	149	346	P	V
		5459.92	43.85	-10.15	54	31.61	31.86	10.98	30.6	149	346	A	V
	*	5500	101.67	-	-	89.43	31.9	10.95	30.61	149	346	P	V
	*	5500	94.77	-	-	82.53	31.9	10.95	30.61	149	346	A	V
													V
802.11n HT20 CH 116 5580MHz		5434.72	51.45	-22.55	74	39.21	31.85	10.99	30.6	147	347	P	H
		5466.4	50.5	-17.7	68.2	38.27	31.87	10.97	30.61	147	347	P	H
		5459.68	42.25	-11.75	54	30.01	31.86	10.98	30.6	147	347	A	H
	*	5580	101.68	-	-	89.41	32	10.91	30.64	147	347	P	H
	*	5580	94.97	-	-	82.7	32	10.91	30.64	147	347	A	H
		5757.125	50.92	-17.28	68.2	38.26	32.26	11.13	30.73	147	347	P	H
		5455.84	51.96	-22.04	74	39.72	31.86	10.98	30.6	159	347	P	V
		5461.6	50.9	-17.3	68.2	38.66	31.86	10.98	30.6	159	347	P	V
		5445.76	42.28	-11.72	54	30.04	31.86	10.98	30.6	159	347	A	V
	*	5580	102.79	-	-	90.52	32	10.91	30.64	159	347	P	V
	*	5580	95.71	-	-	83.44	32	10.91	30.64	159	347	A	V
		5760.1	51.35	-16.85	68.2	38.69	32.26	11.13	30.73	159	347	P	V



802.11n HT20 CH 140 5700MHz	*	5700	101.67	-	-	89.18	32.17	11.02	30.7	138	349	P	H
	*	5700	94.49	-	-	82	32.17	11.02	30.7	138	349	A	H
		5727.48	60.35	-7.85	68.2	47.78	32.21	11.07	30.71	138	349	P	H
													H
													H
													H
	*	5700	101.98	-	-	89.49	32.17	11.02	30.7	166	349	P	V
	*	5700	94.86	-	-	82.37	32.17	11.02	30.7	166	349	A	V
		5726.44	62.14	-6.06	68.2	49.57	32.21	11.07	30.71	166	349	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	45.57	-28.43	74	55.14	40.4	15.13	65.1	100	0	P	H
		16500	43.81	-24.39	68.2	50.49	39.5	18.92	65.1	100	0	P	H
													H
													H
		11000	44.88	-29.12	74	54.45	40.4	15.13	65.1	100	0	P	V
		16500	43.82	-24.38	68.2	50.5	39.5	18.92	65.1	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	45.16	-28.84	74	54.83	40.37	15.16	65.2			P	H
		16740	42.42	-25.78	68.2	48.32	39.84	19.12	64.86	100	0	P	H
													H
													H
		11160	44.69	-29.31	74	54.36	40.37	15.16	65.2	100	0	P	V
		16740	43.93	-24.27	68.2	49.83	39.84	19.12	64.86	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	45.18	-28.82	74	55.01	40.32	15.19	65.34	100	0	P	H
		17100	47.71	-20.49	68.2	52.18	40.58	19.41	64.46	100	0	P	H
													H
													H
		11400	44.08	-29.92	74	53.91	40.32	15.19	65.34	100	0	P	V
		17100	46.86	-21.34	68.2	51.33	40.58	19.41	64.46	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		5440	52.24	-21.76	74	40	31.85	10.99	30.6	125	349	P	H
		5467.12	51.71	-16.49	68.2	39.48	31.87	10.97	30.61	125	349	P	H
		5439.28	44.58	-9.42	54	32.34	31.85	10.99	30.6	125	349	A	H
	*	5510	99.95	-	-	87.71	31.9	10.95	30.61	125	349	P	H
	*	5510	92.28	-	-	80.04	31.9	10.95	30.61	125	349	A	H
		5751.175	50.87	-17.33	68.2	38.26	32.24	11.1	30.73	125	349	P	H
		5416.48	52.73	-21.27	74	40.5	31.83	11	30.6	145	347	P	V
		5467.6	52.53	-15.67	68.2	40.3	31.87	10.97	30.61	145	347	P	V
		5458.96	44.58	-9.42	54	32.34	31.86	10.98	30.6	145	347	A	V
	*	5510	101.83	-	-	89.59	31.9	10.95	30.61	145	347	P	V
	*	5510	94	-	-	81.76	31.9	10.95	30.61	145	347	A	V
		5748.9	51.45	-16.75	68.2	38.84	32.24	11.1	30.73	145	347	P	V
802.11n HT40 CH 110 5550MHz		5455.6	51	-23	74	38.76	31.86	10.98	30.6	124	348	P	H
		5465.68	52.01	-16.19	68.2	39.78	31.87	10.97	30.61	124	348	P	H
		5451.76	44.13	-9.87	54	31.89	31.86	10.98	30.6	124	348	A	H
	*	5550	101.54	-	-	89.28	31.97	10.92	30.63	124	348	P	H
	*	5550	93.93	-	-	81.67	31.97	10.92	30.63	124	348	A	H
		5760.45	52.76	-15.44	68.2	40.1	32.26	11.13	30.73	124	348	P	H
		5452.72	51.92	-22.08	74	39.68	31.86	10.98	30.6	151	348	P	V
		5468.56	51.54	-16.66	68.2	39.31	31.87	10.97	30.61	151	348	P	V
		5458	43.94	-10.06	54	31.7	31.86	10.98	30.6	151	348	A	V
	*	5550	102.06	-	-	89.8	31.97	10.92	30.63	151	348	P	V
	*	5550	94.8	-	-	82.54	31.97	10.92	30.63	151	348	A	V
		5740.675	51.69	-16.51	68.2	39.08	32.24	11.1	30.73	151	348	P	V



802.11n HT40 CH 134 5670MHz		5430.64	50.49	-23.51	74	38.25	31.85	10.99	30.6	133	349	P	H
		5460.64	50.28	-17.92	68.2	38.04	31.86	10.98	30.6	133	349	P	H
		5432.32	42.65	-11.35	54	30.41	31.85	10.99	30.6	133	349	A	H
	*	5670	100.13	-	-	87.68	32.14	11	30.69	133	349	P	H
	*	5670	93.03	-	-	80.58	32.14	11	30.69	133	349	A	H
		5749.25	53.19	-15.01	68.2	40.58	32.24	11.1	30.73	133	349	P	H
		5436.88	50.43	-23.57	74	38.19	31.85	10.99	30.6	155	349	P	V
		5464.24	49.13	-19.07	68.2	36.9	31.87	10.97	30.61	155	349	P	V
		5445.52	43.08	-10.92	54	30.84	31.86	10.98	30.6	155	349	A	V
	*	5670	101.22	-	-	88.77	32.14	11	30.69	155	349	P	V
	*	5670	94.12	-	-	81.67	32.14	11	30.69	155	349	A	V
		5762.9	52.95	-15.25	68.2	40.3	32.26	11.13	30.74	155	349	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		11020	45.61	-28.39	74	55.19	40.4	15.13	65.11	100	0	P	H
		16530	43.78	-24.42	68.2	50.35	39.55	18.95	65.07	100	0	P	H
													H
													H
		11020	43.55	-30.45	74	53.13	40.4	15.13	65.11	100	0	P	V
		16530	43.71	-24.49	68.2	50.28	39.55	18.95	65.07	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	43.88	-30.12	74	53.51	40.38	15.15	65.16	100	0	P	H
		16650	42.9	-25.3	68.2	49.07	39.72	19.05	64.94	100	0	P	H
													H
													H
		11100	44.46	-29.54	74	54.09	40.38	15.15	65.16	100	0	P	V
		16650	42.88	-25.32	68.2	49.05	39.72	19.05	64.94	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	43.86	-30.14	74	53.65	40.33	15.18	65.3	100	0	P	H
		17010	44.96	-23.24	68.2	49.94	40.26	19.34	64.58	100	0	P	H
													H
													H
		11340	44.06	-29.94	74	53.85	40.33	15.18	65.3	100	0	P	V
		17010	44.77	-23.43	68.2	49.75	40.26	19.34	64.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT40 (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 HT40 LF		34.86	26.13	-13.87	40	34.72	23.1	0.64	32.33	-	-	P	H	
		103.98	31.39	-12.11	43.5	46.13	16.5	1.05	32.29	-	-	P	H	
		207.39	30.22	-13.28	43.5	45.03	15.91	1.54	32.26	-	-	P	H	
		479.9	30.48	-15.52	46	36.67	23.56	2.44	32.19	-	-	P	H	
		622.7	34.15	-11.85	46	38.03	25.48	2.84	32.2	100	0	P	H	
		960.1	41.68	-12.32	54	39.03	30.14	3.47	30.96	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
		36.719	32.4	-7.6	40	42.16	21.94	0.63	32.33	100	208	QP	V	
		64.83	35.96	-4.04	40	55.29	12.1	0.88	32.31	-	-	P	V	
		101.82	28.14	-15.36	43.5	43.1	16.3	1.03	32.29	-	-	P	V	
		479.9	30.61	-15.39	46	36.8	23.56	2.44	32.19	-	-	P	V	
		622.7	30.22	-15.78	46	34.1	25.48	2.84	32.2	-	-	P	V	
		960.1	41.85	-12.15	54	39.2	30.14	3.47	30.96	-	-	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”.



<For Sample 2>

Band 1 - 5150~5250MHz

WIFI 802.11n HT40 (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 HT40 CH 38 5190MHz		5150	53.11	-20.89	74	41.57	31.62	10.48	30.56	100	302	P	H
		5149.76	45.78	-8.22	54	34.24	31.62	10.48	30.56	100	302	A	H
	*	5190	97.16	-	-	85.53	31.65	10.55	30.57	100	302	P	H
	*	5190	91.03	-	-	79.4	31.65	10.55	30.57	100	302	A	H
		5409.36	50	-24	74	37.77	31.82	11.01	30.6	100	302	P	H
		5460	41.39	-12.61	54	29.15	31.86	10.98	30.6	100	302	A	H
		5149.76	61	-13	74	49.46	31.62	10.48	30.56	121	321	P	V
		5150	48.26	-5.74	54	36.72	31.62	10.48	30.56	121	321	A	V
	*	5190	100.59	-	-	88.96	31.65	10.55	30.57	121	321	P	V
	*	5190	94.53	-	-	82.9	31.65	10.55	30.57	121	321	A	V
		5420.64	50.98	-23.02	74	38.75	31.83	11	30.6	121	321	P	V
		5356.56	41.93	-12.07	54	30.14	31.78	10.6	30.59	121	321	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 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		10380	44.22	-29.78	74	54.77	39.61	15.04	65.2	100	0	P	H
		15570	42.17	-31.83	74	49.35	38.7	18.17	64.05	100	0	P	H
													H
													H
		10380	45.06	-28.94	74	55.61	39.61	15.04	65.2	100	0	P	V
		15570	41.86	-32.14	74	49.04	38.7	18.17	64.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT40 (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 HT40 LF		94.26	34.4	-9.1	43.5	50.35	15.32	1.02	32.29	100	0	P	H
		119.91	33.33	-10.17	43.5	46.96	17.5	1.16	32.29	-	-	P	H
		207.39	27.73	-15.77	43.5	42.54	15.91	1.54	32.26	-	-	P	H
		479.9	29.89	-16.11	46	36.08	23.56	2.44	32.19	-	-	P	H
		622.7	31.25	-14.75	46	35.13	25.48	2.84	32.2	-	-	P	H
		960.1	41.63	-12.37	54	38.98	30.14	3.47	30.96	-	-	P	H
													H
													H
													H
													H
													H
													H
		36.75	36.75	-3.25	40	46.51	21.94	0.63	32.33	-	-	P	V
		65.91	34.46	-5.54	40	53.73	12.16	0.88	32.31	100	2	QP	V
		94.8	33.49	-10.01	43.5	49.31	15.45	1.02	32.29	-	-	P	V
		479.9	31.18	-14.82	46	37.37	23.56	2.44	32.19	-	-	P	V
		622.7	28.9	-17.1	46	32.78	25.48	2.84	32.2	-	-	P	V
		960.1	42.07	-11.93	54	39.42	30.14	3.47	30.96	-	-	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 Jheng, Bill Chang , and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	47~49%

<For Sample 1>

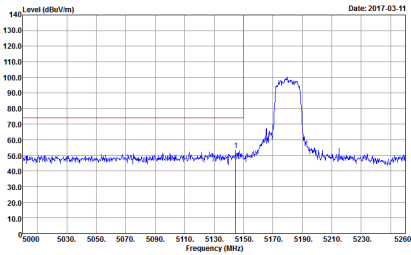
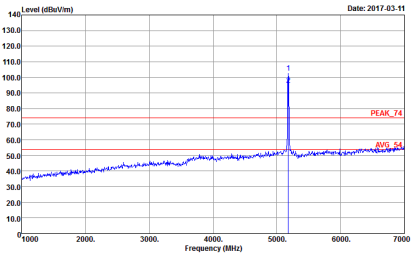
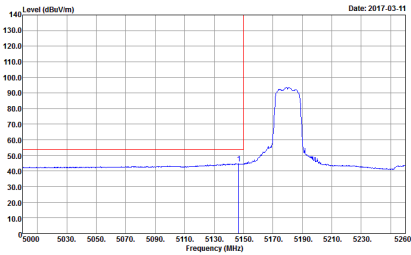
Note symbol

-L	Low channel location
-R	High channel location

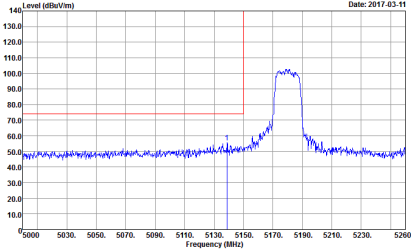
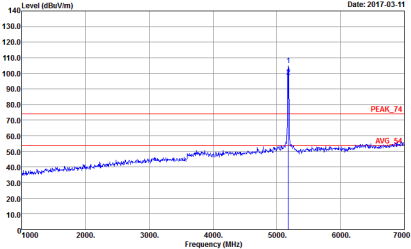
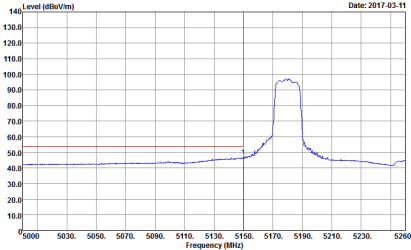


Band 1 - 5150~5250MHz

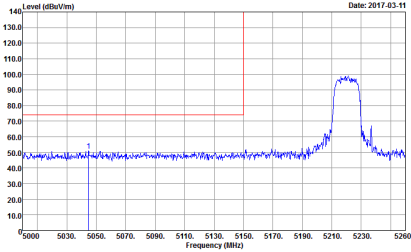
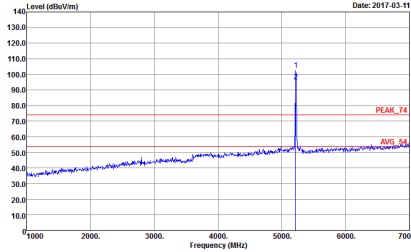
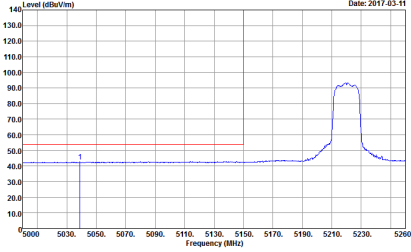
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1	Left blank

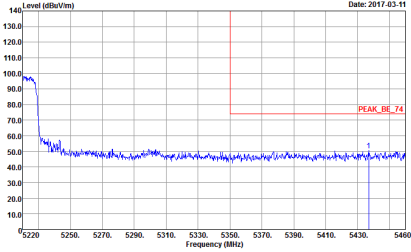
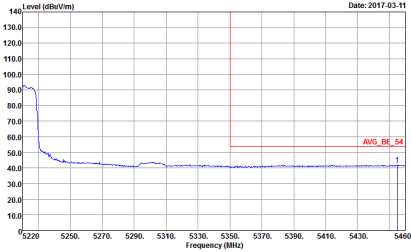


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 1	Left blank

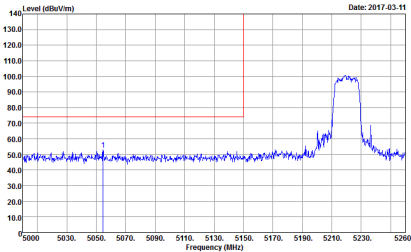
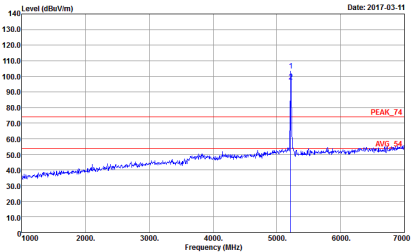
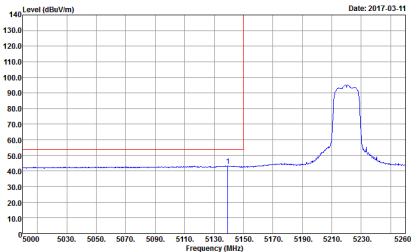


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_T4 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	 Site : 03CH13-HY Condition : PEAK_T4 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2
Avg.	 Site : 03CH13-HY Condition : AVG_BE_S4 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank

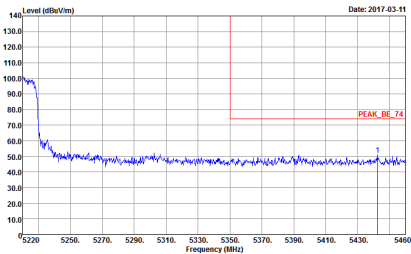
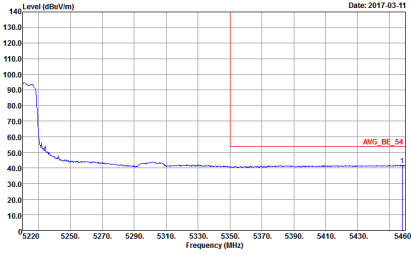


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank

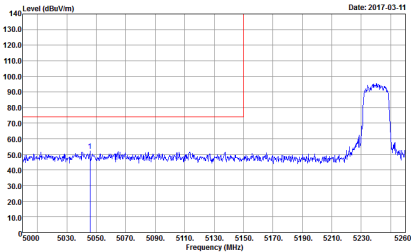
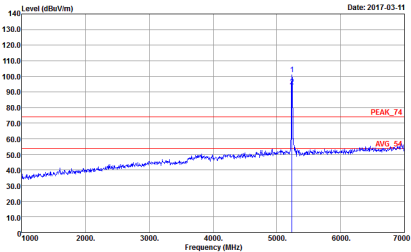
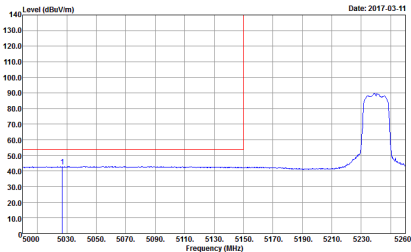


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank

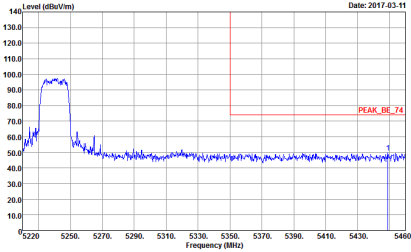
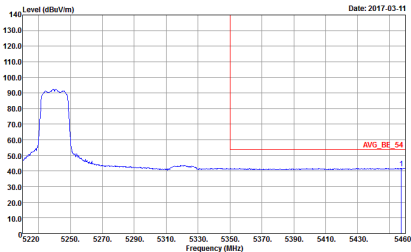


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 2	Left blank

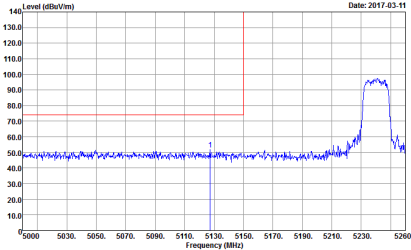
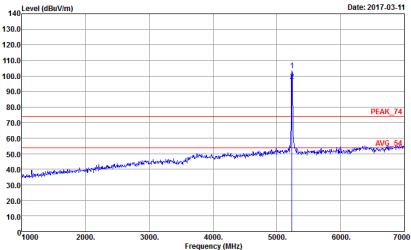
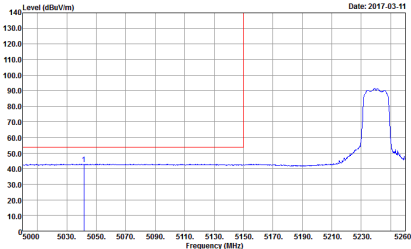


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank

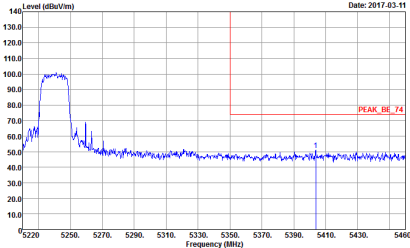
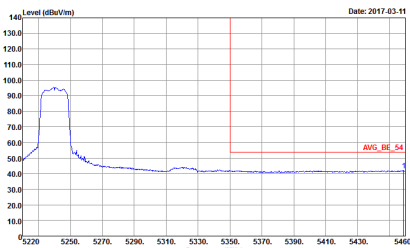


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank

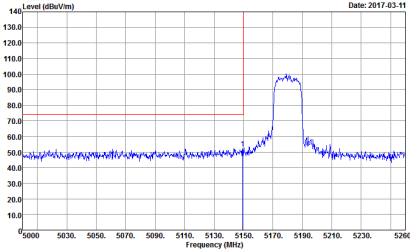
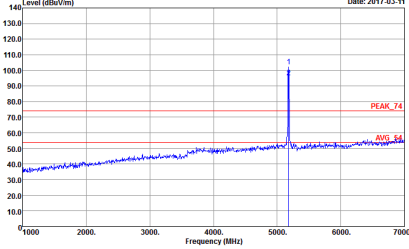
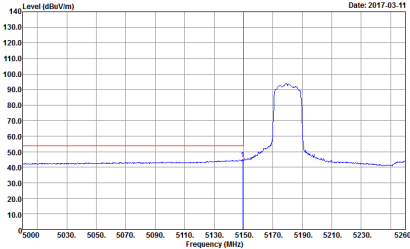


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 3	Left blank

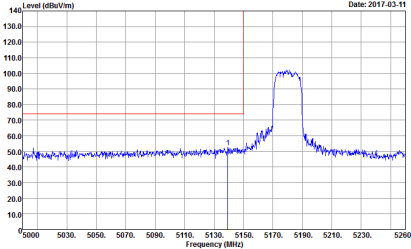
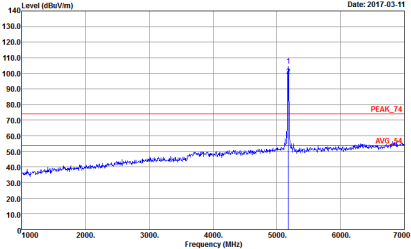
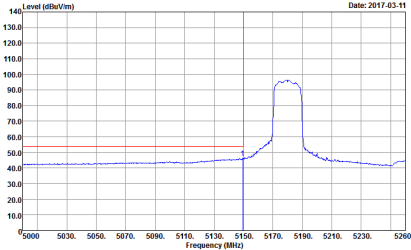


Band 1 5150~5250MHz

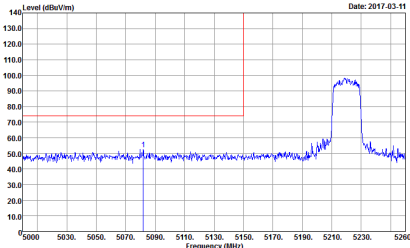
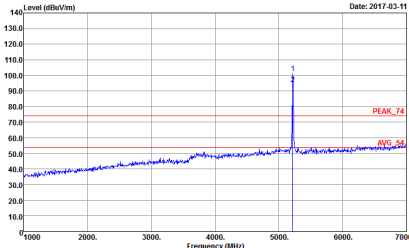
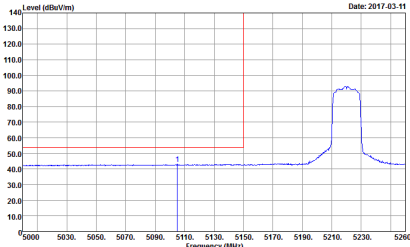
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120d_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120d_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4
		C
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120d_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4	Left blank

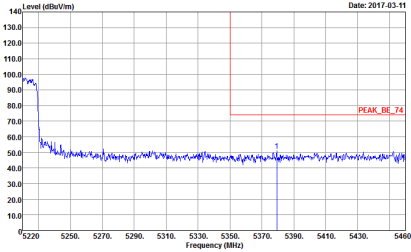
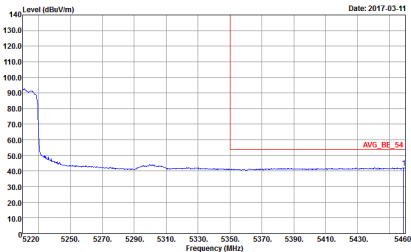


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 4	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_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	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_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Left blank

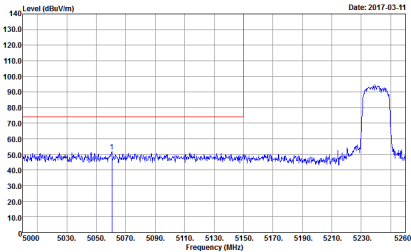
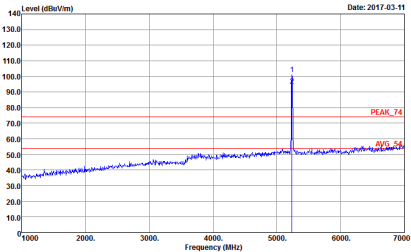
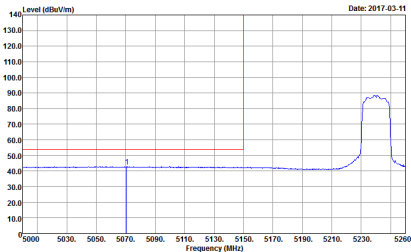


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Left blank

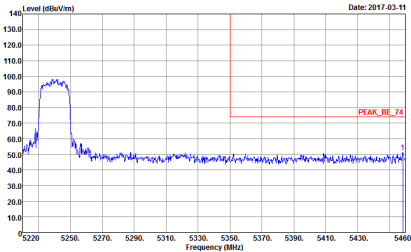
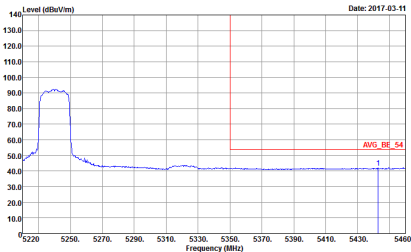


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Left blank
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 5	Left blank

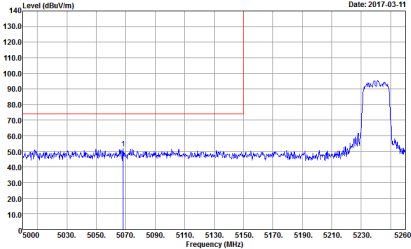
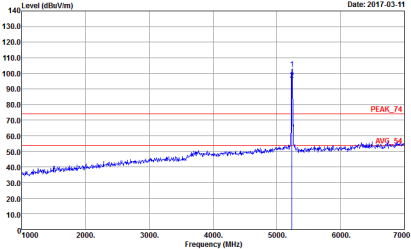
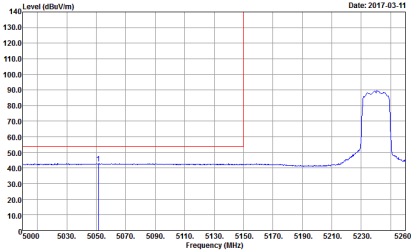


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_T4 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 6	 Site : 03CH13-HY Condition : PEAK_T4 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 6
Avg.	 Site : 03CH13-HY Condition : AVG_BE_S4 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 6	Left blank

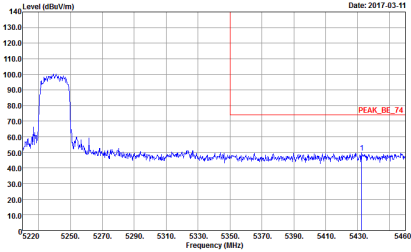
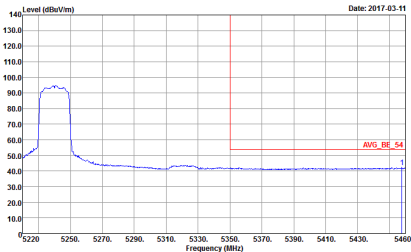


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	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_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	Left blank

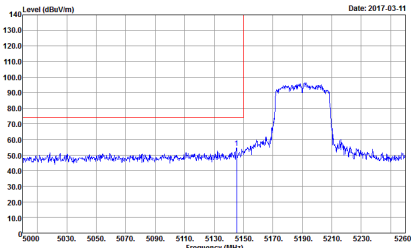
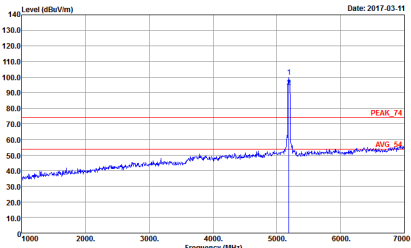
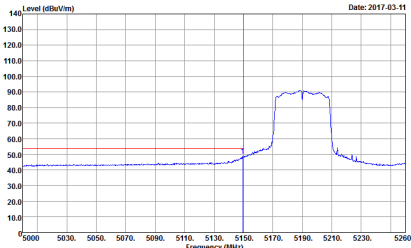


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 6	Left blank

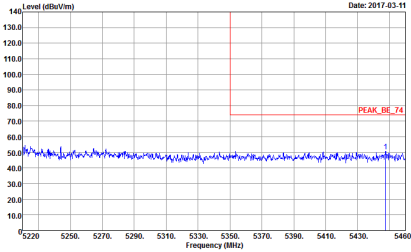
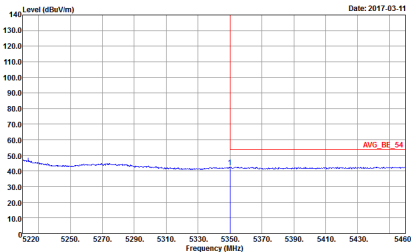


Band 1 5150~5250MHz

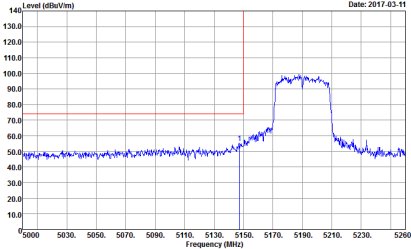
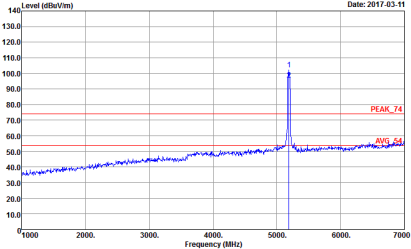
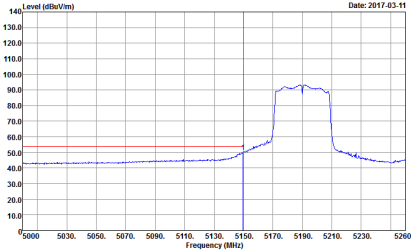
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank

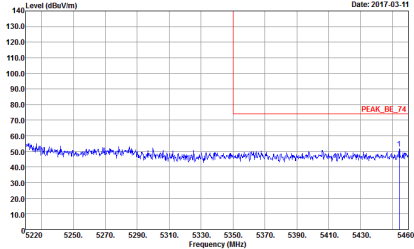
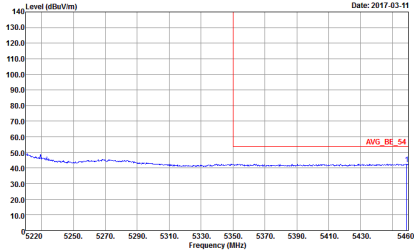


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank

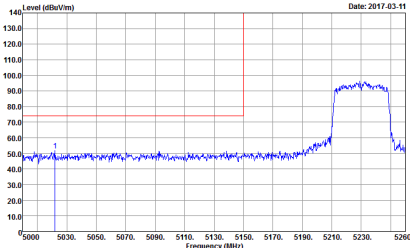
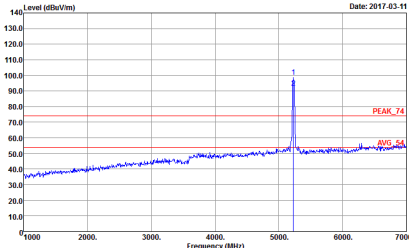
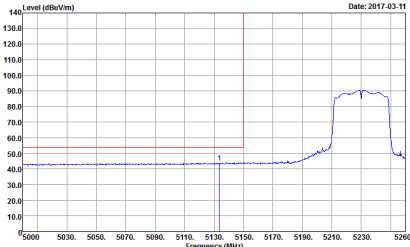


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_T4 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	 Site : 03CH13-HY Condition : PEAK_T4 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank

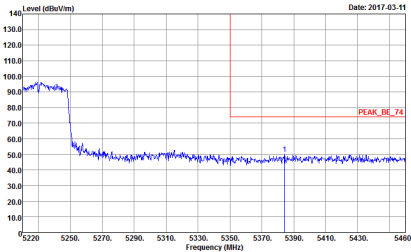
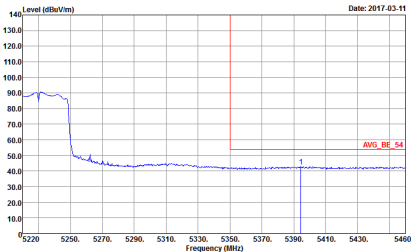


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 7	Left blank

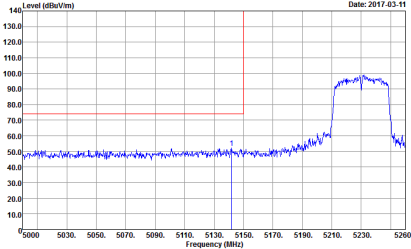
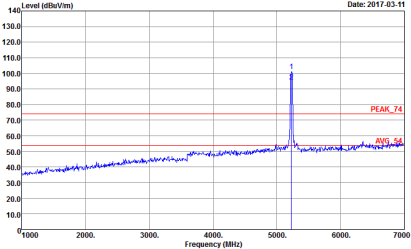
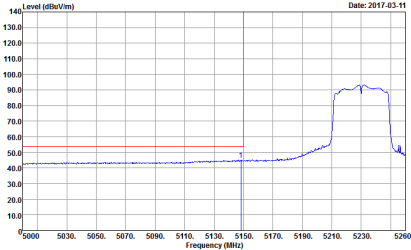


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	Left blank

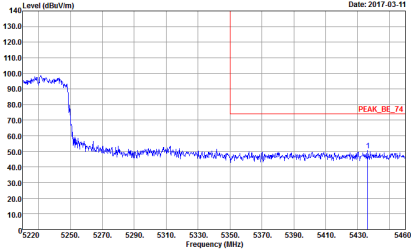
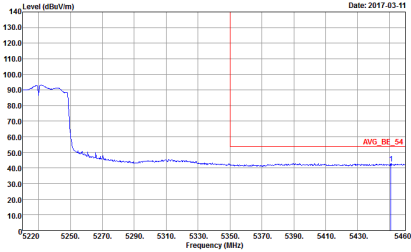


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	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_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	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_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 8	Left blank

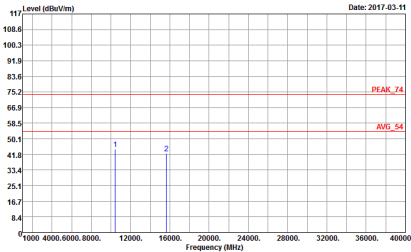
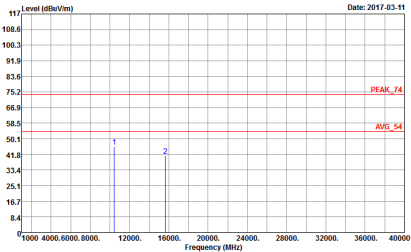


Band 1 - 5150~5250MHz

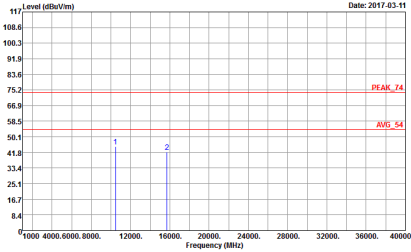
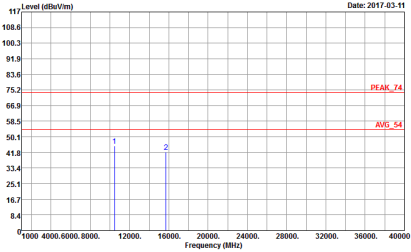
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 1	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 1



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 2	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 2



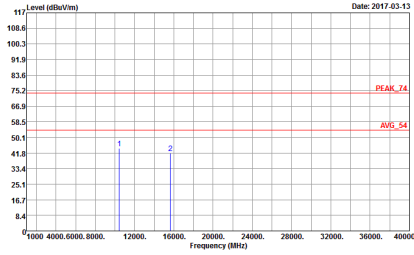
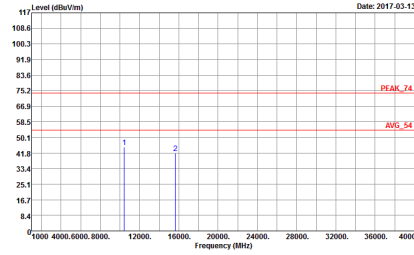
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 3



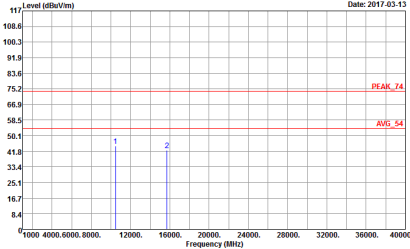
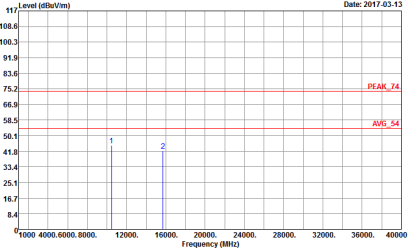
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

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 : 710507-03 Mode : 4	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 4



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 : 710507-03 Mode : 5	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 5



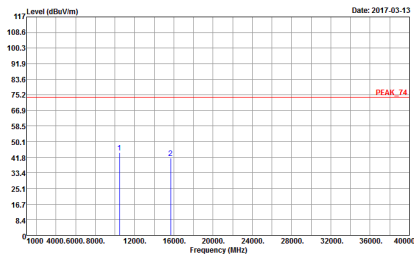
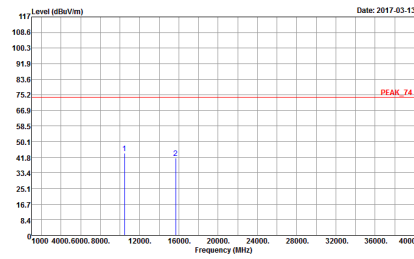
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2017-03-13  Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 6	Level (dBuV/m) Date: 2017-03-13  Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 6



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	117 Level (dBuV/m) Date: 2017-03-13 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 7	117 Level (dBuV/m) Date: 2017-03-13 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 7

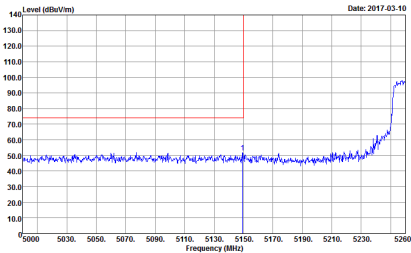
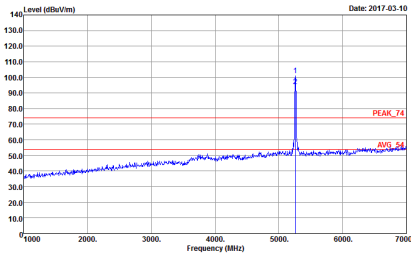
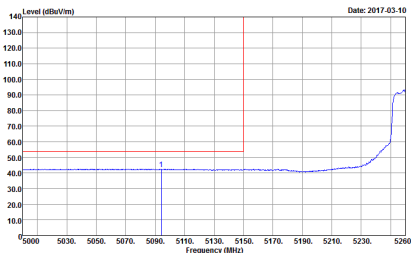


WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 8

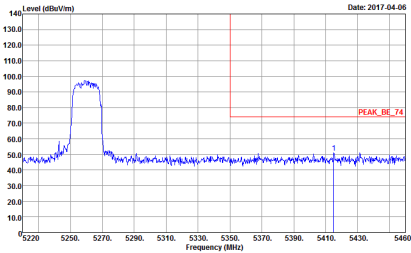
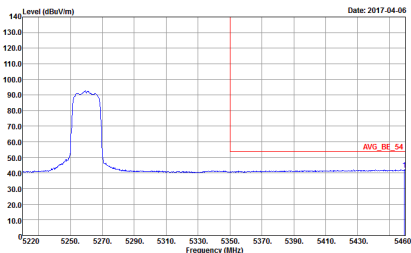


Band 2 - 5250~5350MHz

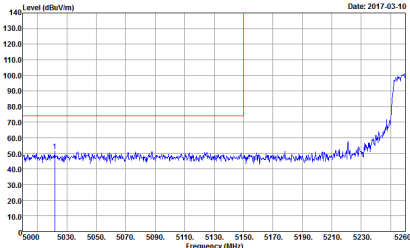
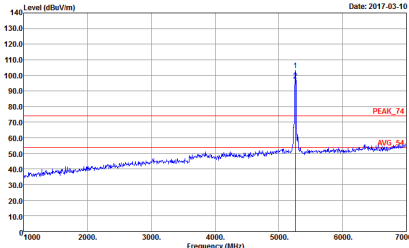
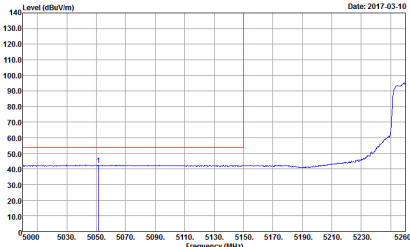
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

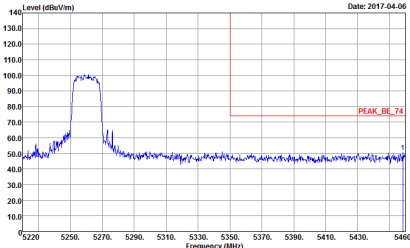
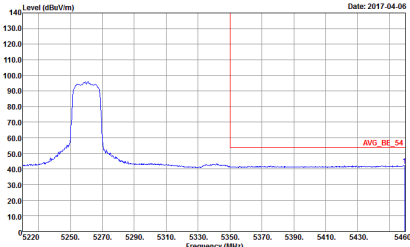


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

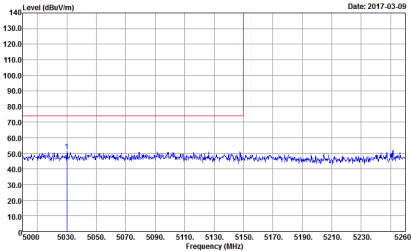
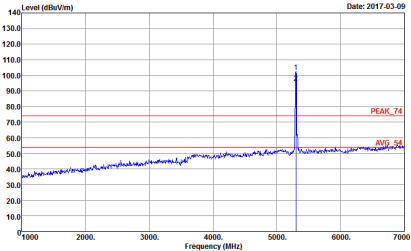
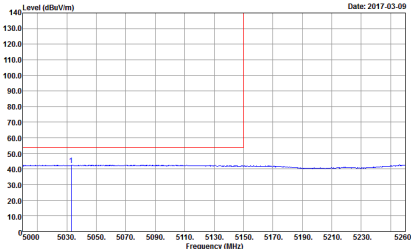


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

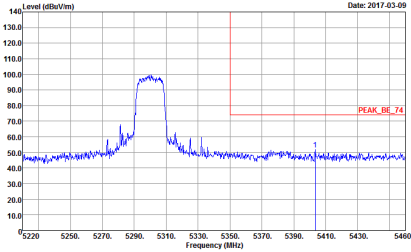
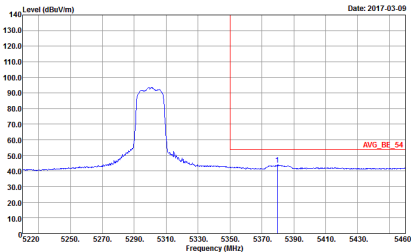


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

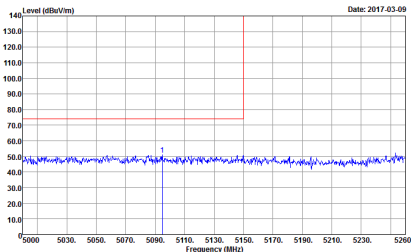
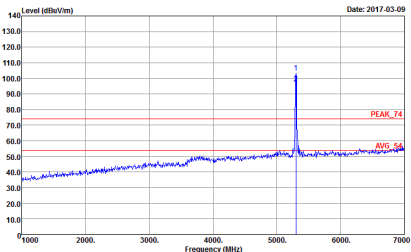
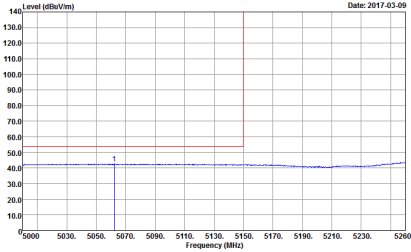


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

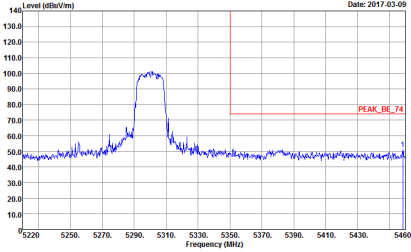
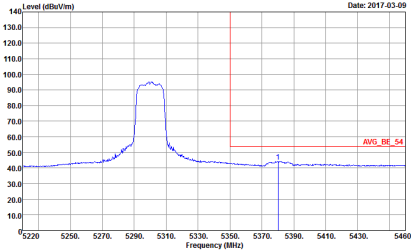


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

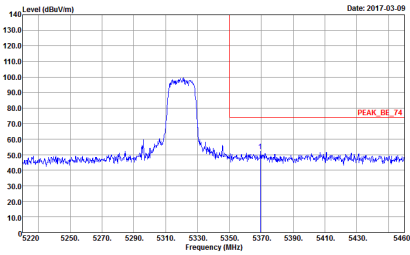
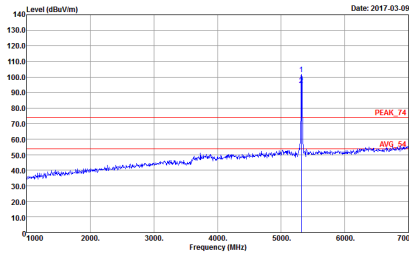
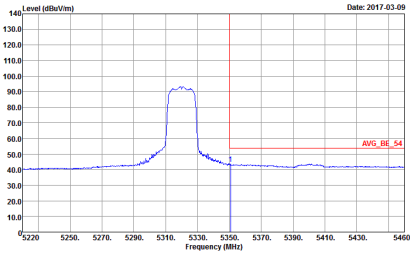


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

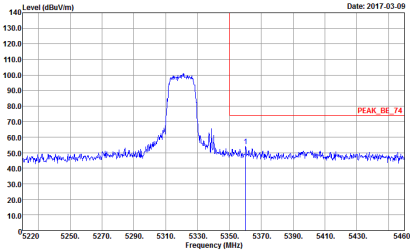
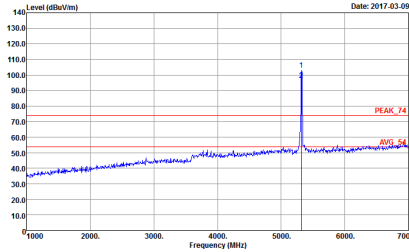
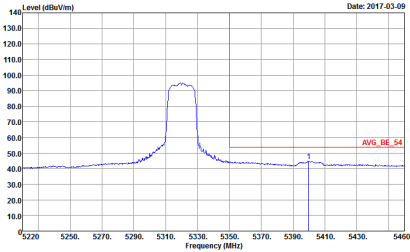


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

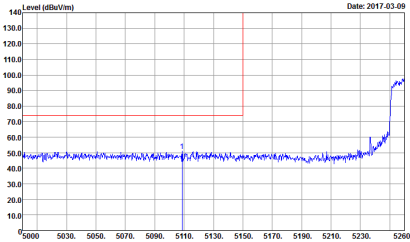
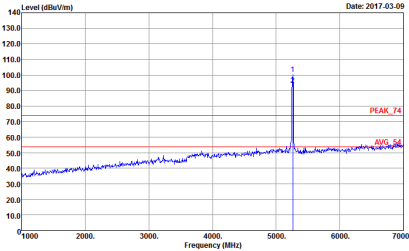
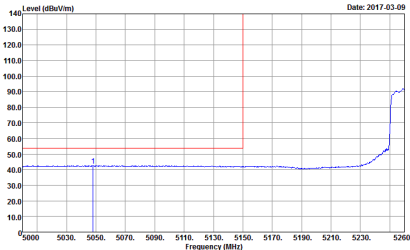


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 11	Left blank

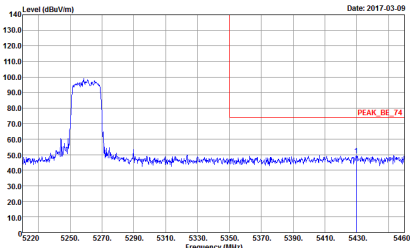
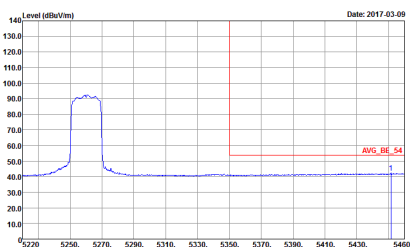


Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 12
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 12	Left blank

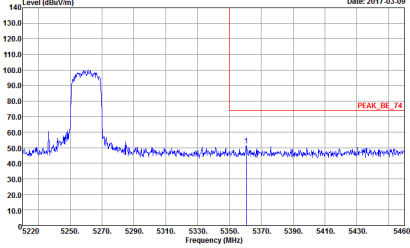
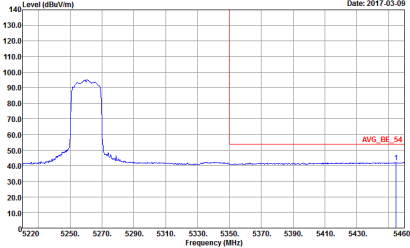


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Left blank

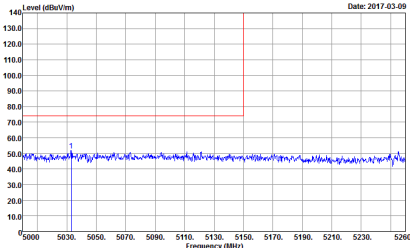
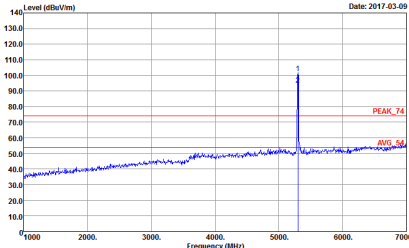
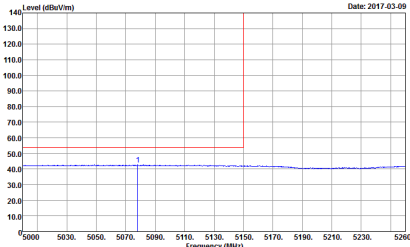


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Left blank

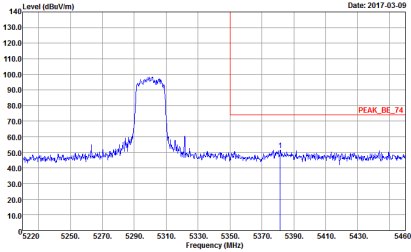
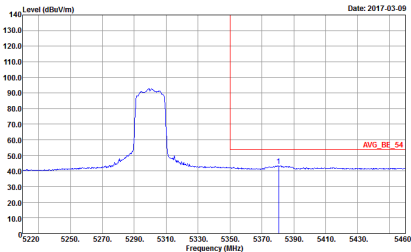


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 12	Left blank

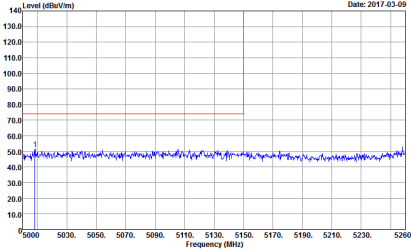
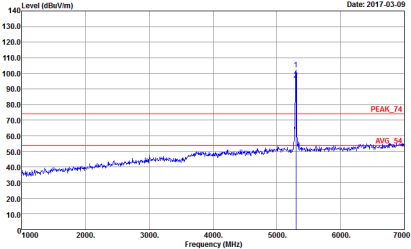
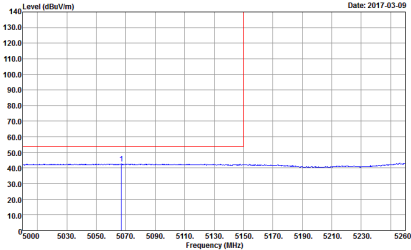


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	Left blank

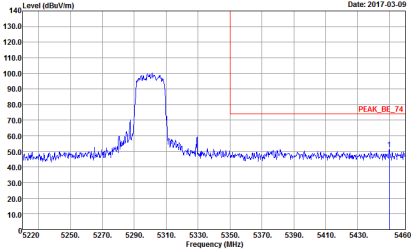
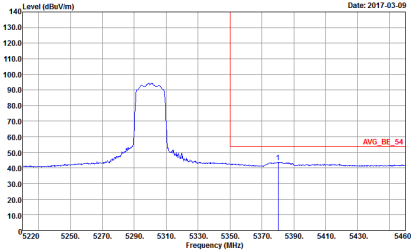


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	Left blank

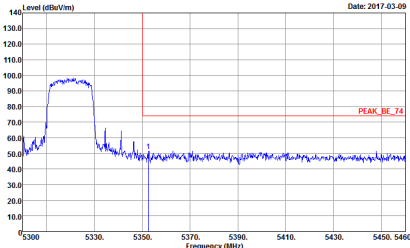
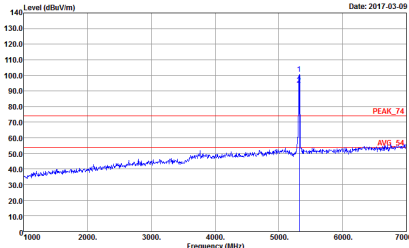
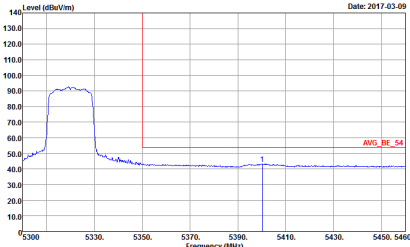


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	Left blank

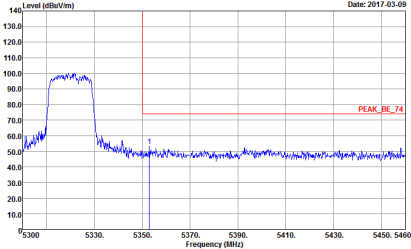
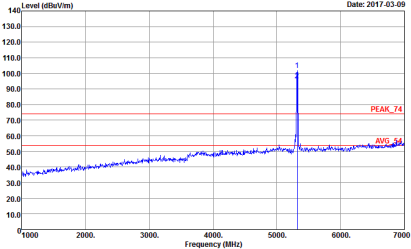
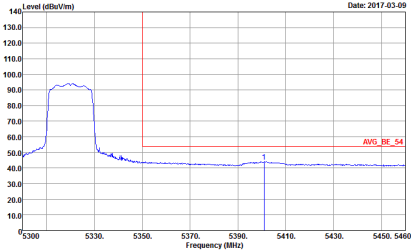


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 13	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_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14	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_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 14	Left blank

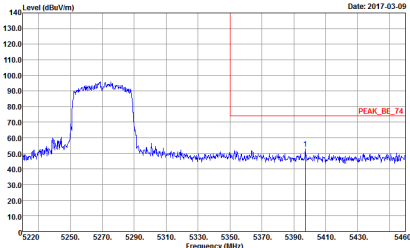
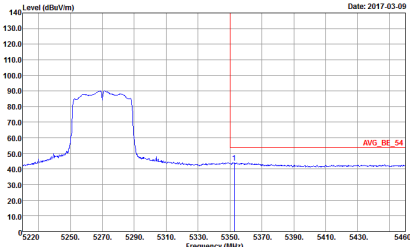


Band 2 5250~5350MHz

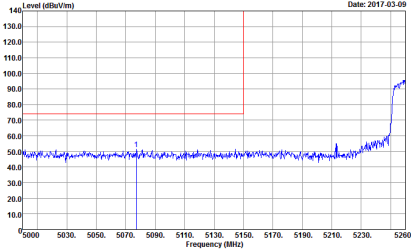
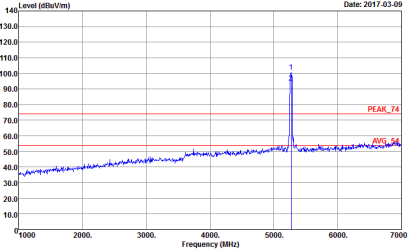
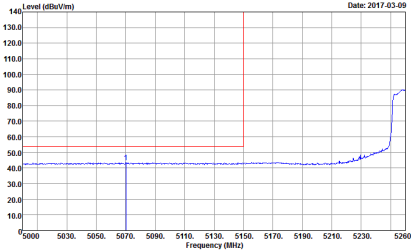
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 15	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 15
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 15	Left blank

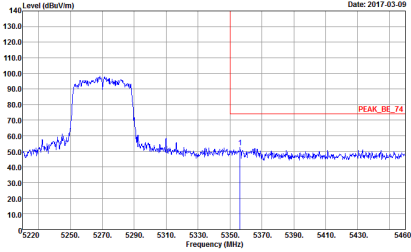
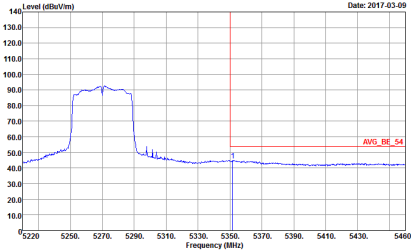


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	Left blank

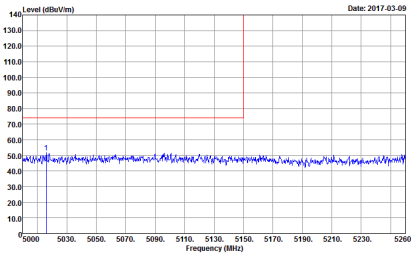
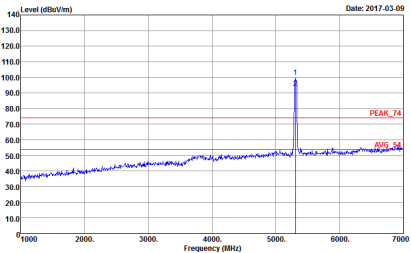
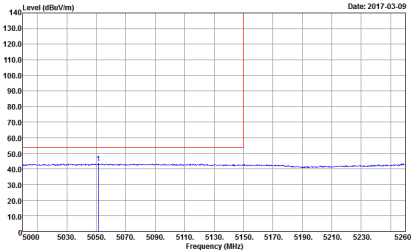


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Vertical	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	Left blank

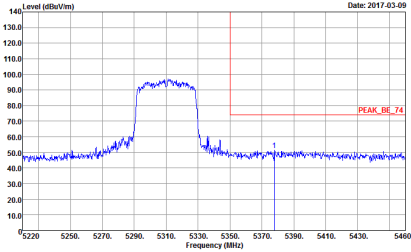
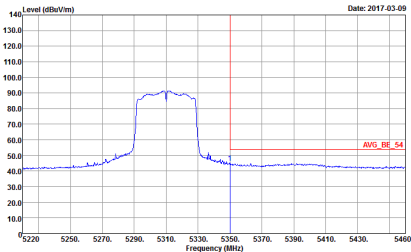


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Vertical	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 15	Left blank

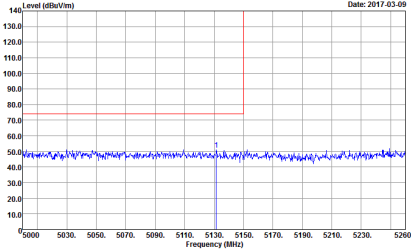
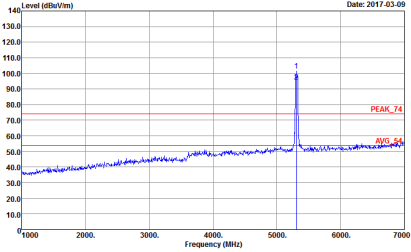
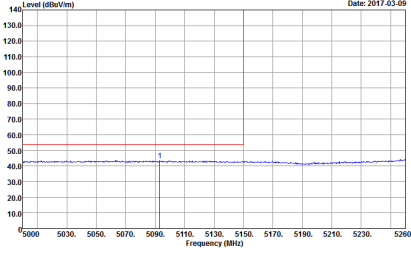


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank

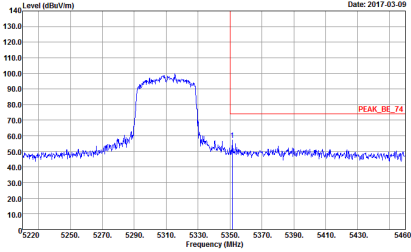
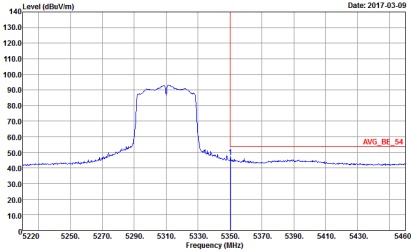


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank

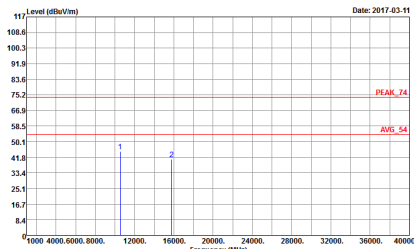
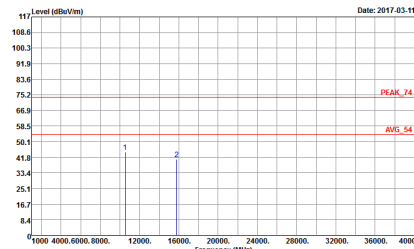


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 16	Left blank

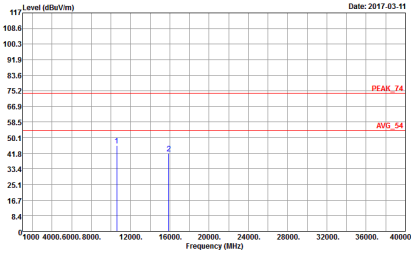
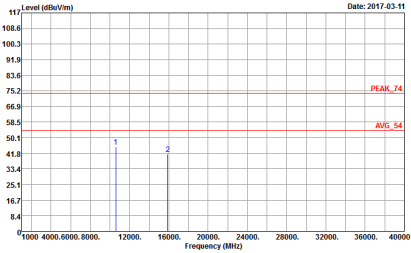


Band 2 - 5250~5350MHz

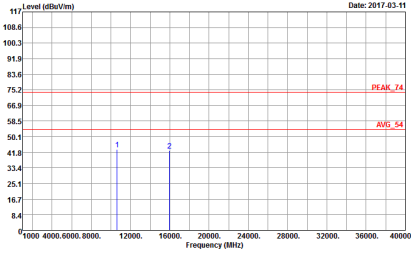
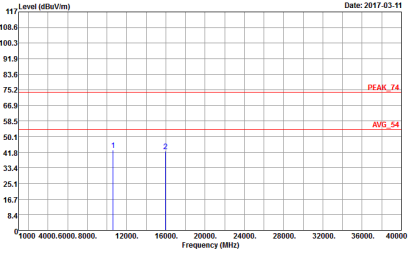
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 9



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 10	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 10



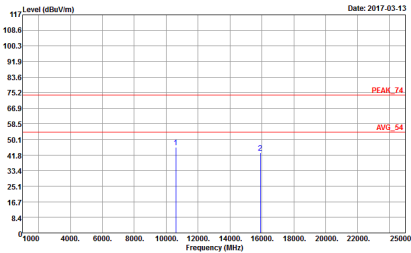
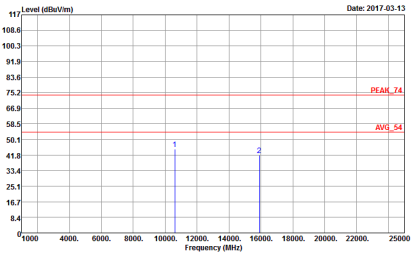
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 11



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 : 710507-03 Mode : 12	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 12



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 : 710507-03 Mode : 13	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 13

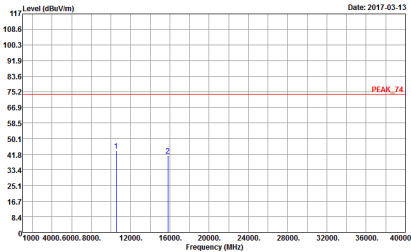
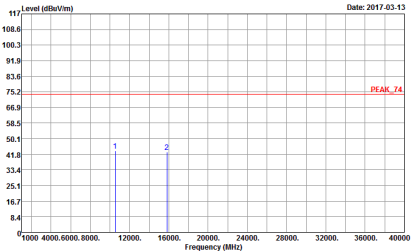


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 14	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 14

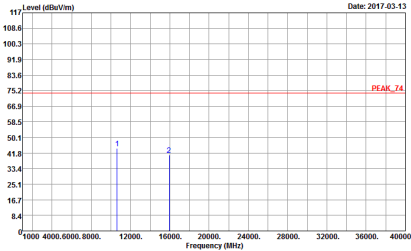
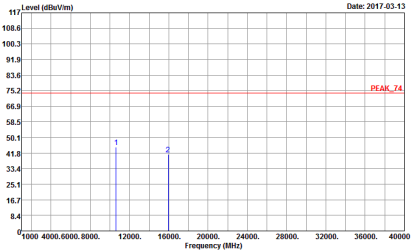


Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 15

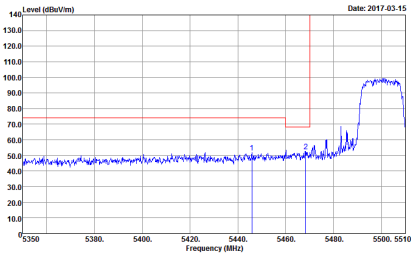
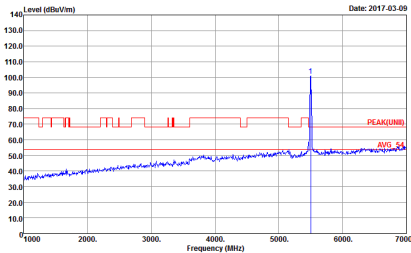
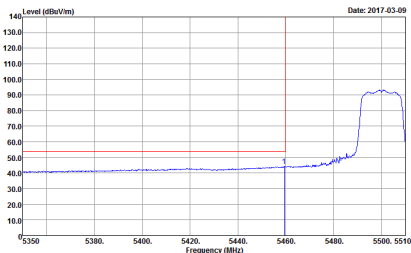


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 16	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 16

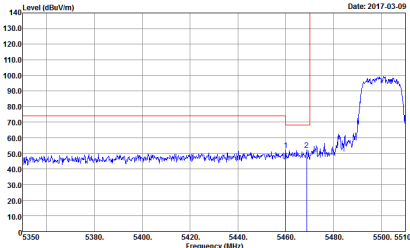
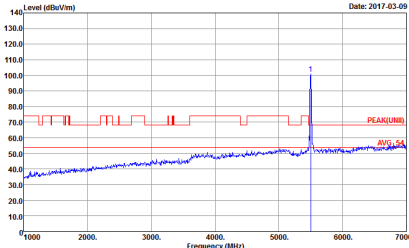
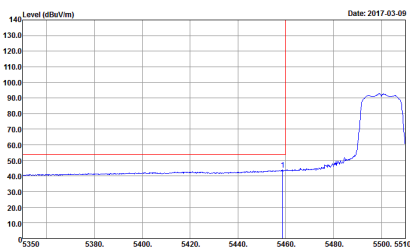


Band 3 - 5470~5725MHz

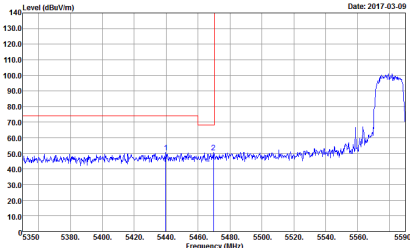
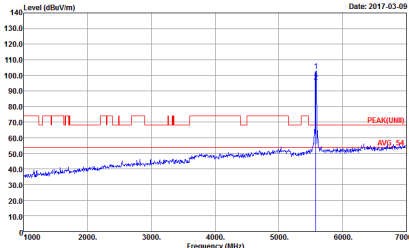
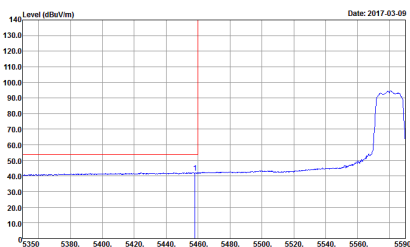
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17	Left blank

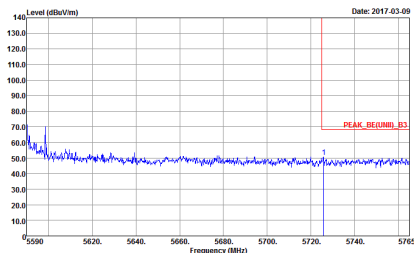


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 17	Left blank

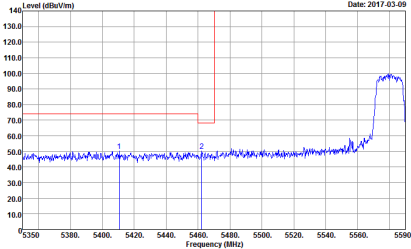
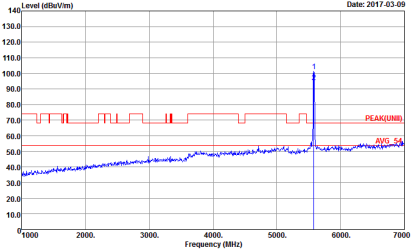
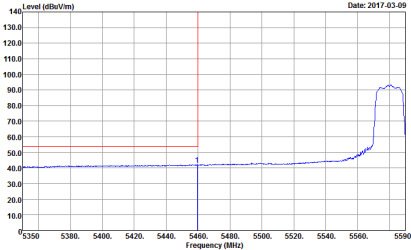


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	Left blank

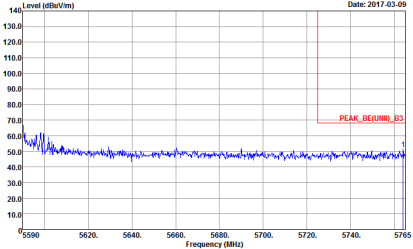


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	Left blank

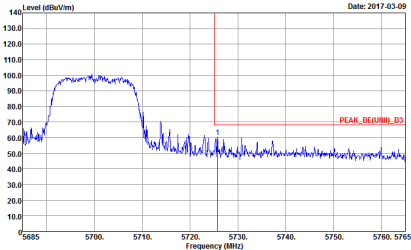
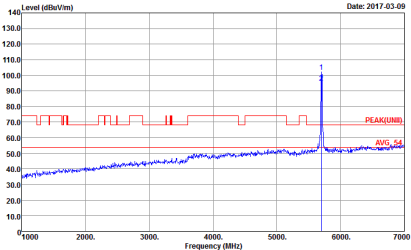


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	Left blank

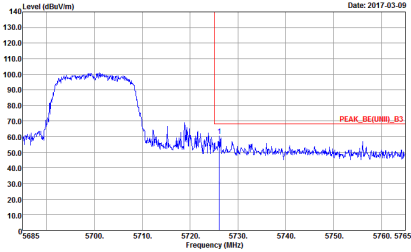
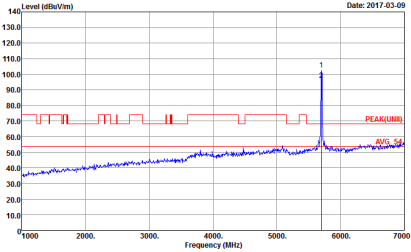


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 18	Left blank



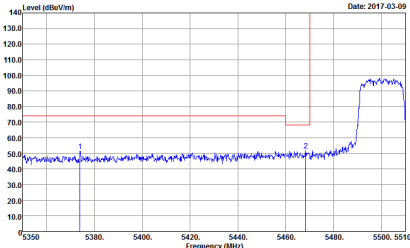
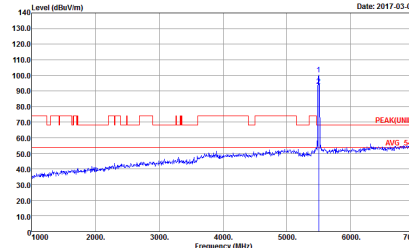
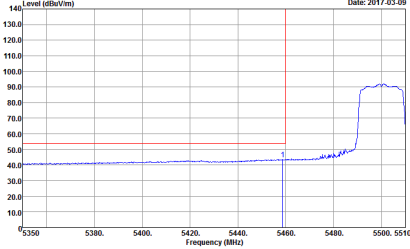
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 19	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 19



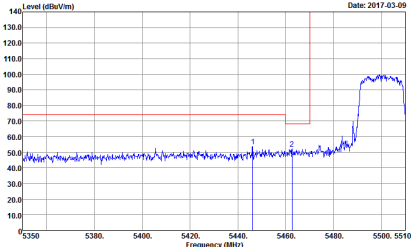
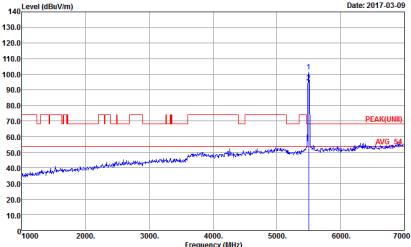
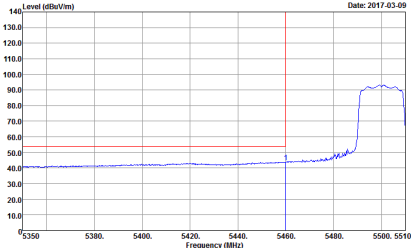
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 19	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 19



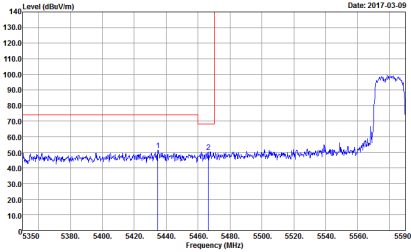
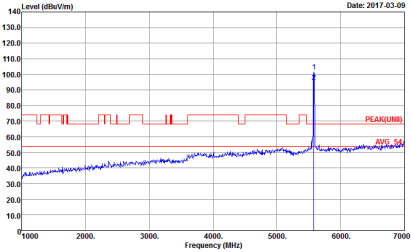
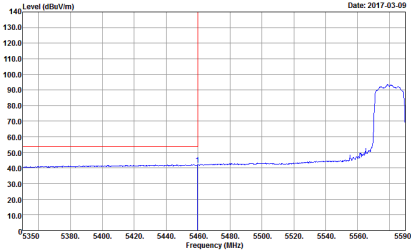
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE[UNII]_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 20	 Site : 03CH13-HY Condition : PEAK[UNII] 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE[UNII]_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 20	Left blank

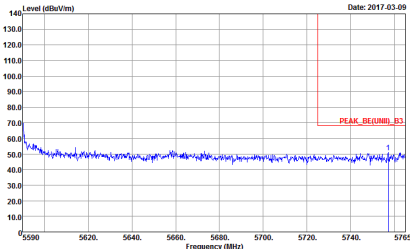


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 20	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 20	Left blank

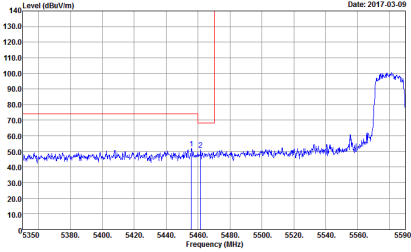
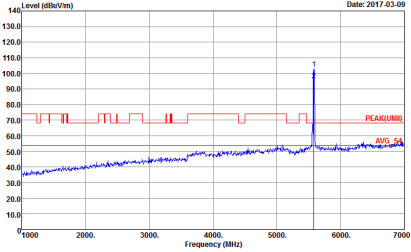
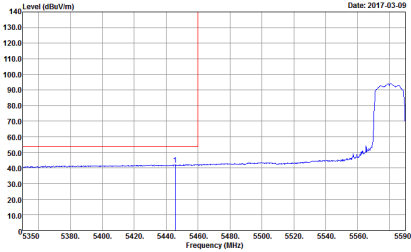


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2017-03-09 Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	Left blank

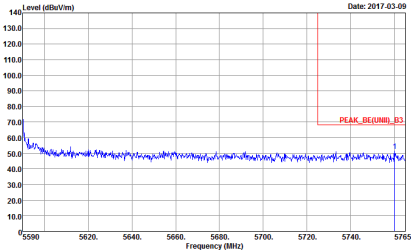


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	Left blank

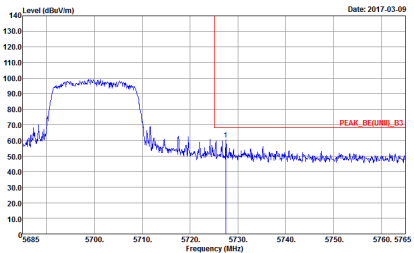
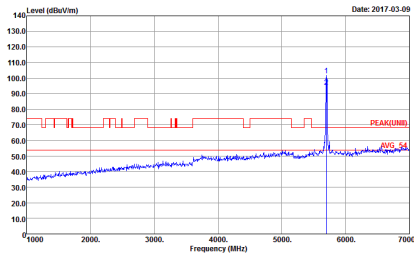


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	Left blank

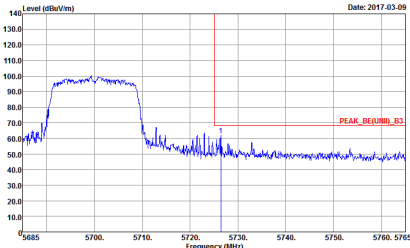
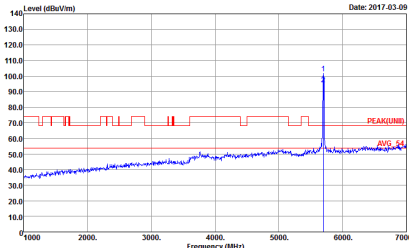


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : Z1	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 22	 Site : 03CH13-HY Condition : PEAK(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 22

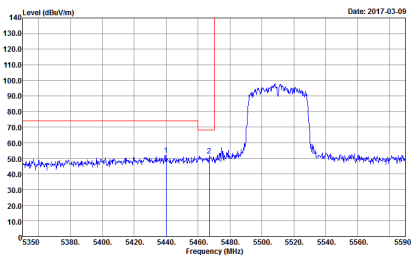
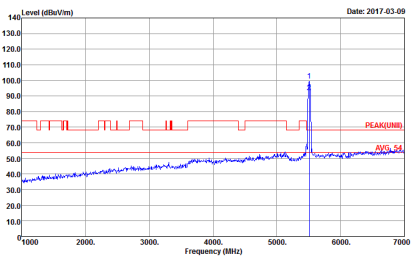
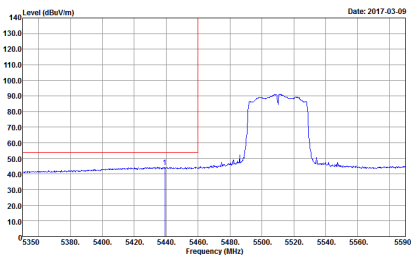


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 22	 Site : 03CH13-HY Condition : PEAK(UNIT)_B3 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 22

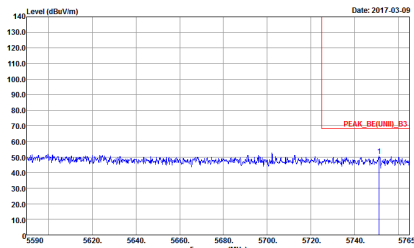


Band 3 5470~5725MHz

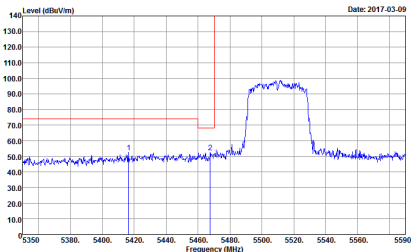
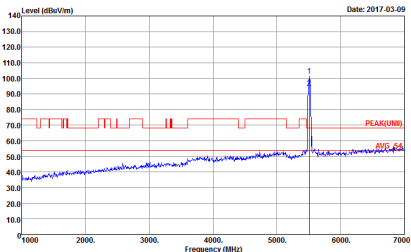
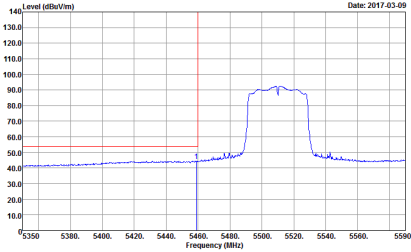
WIFI 802.11n HT40 (Band Edge @ 3m)

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[UNII]_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 23	 Site : 03CH13-HY Condition : PEAK[UNII] 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE[UNII]_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 23	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_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT-Auto Detector : Peak Project : 710507-03 Mode : 23	Left blank

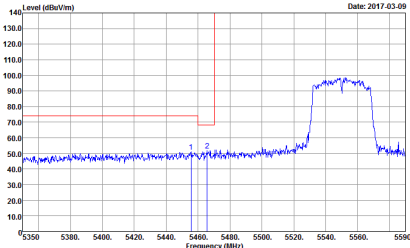
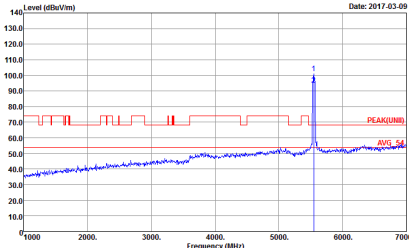
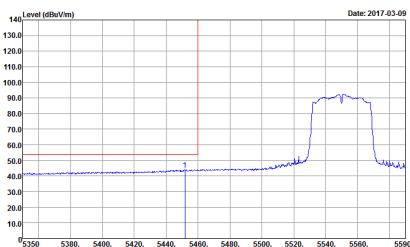


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 23	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 23	Left blank

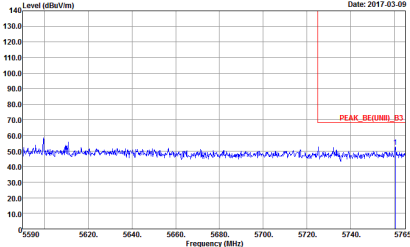


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2017-03-09 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 710507-03 Mode : Z3	Left blank

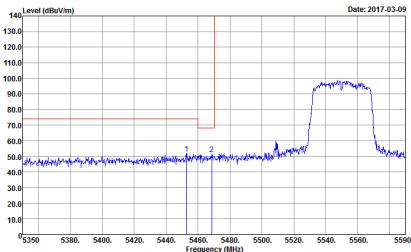
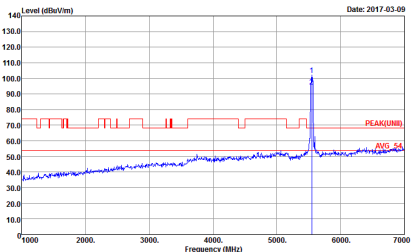
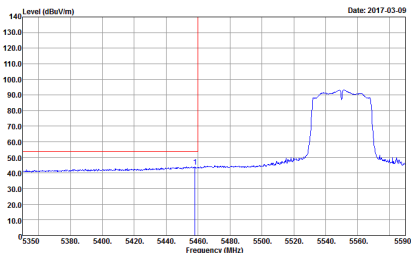


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24	Left blank

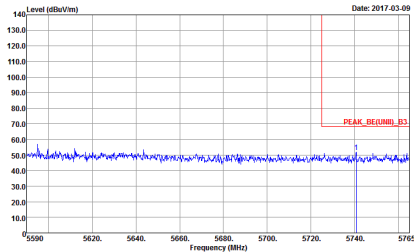


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 24	Left blank

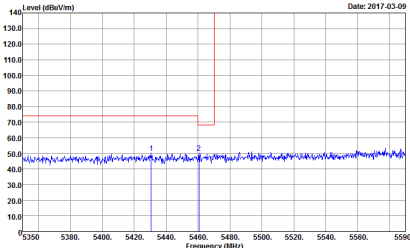
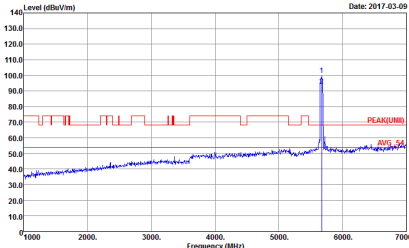
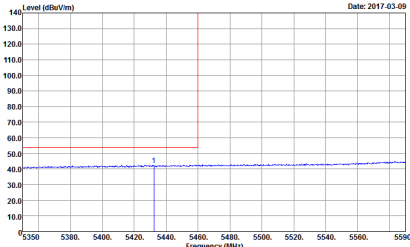


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 24	Left blank

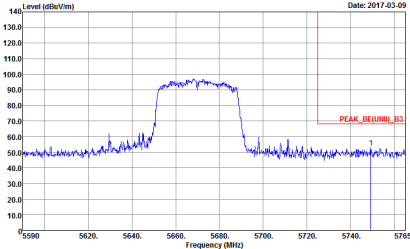


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 710507-03 Mode : 24	Left blank

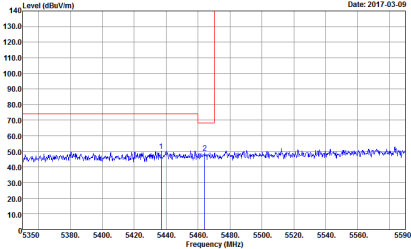
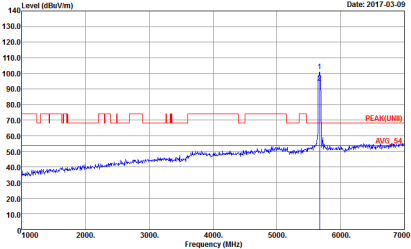
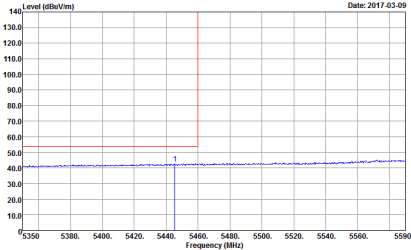


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25	Left blank

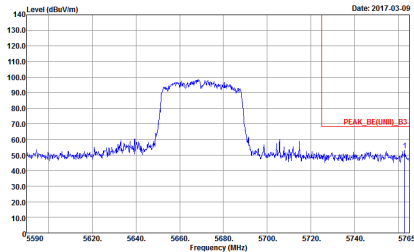


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 25	Left blank



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(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25	 Site : 03CH13-HY Condition : PEAK(UNIT1) 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNIT1)_B3 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 25	Left blank

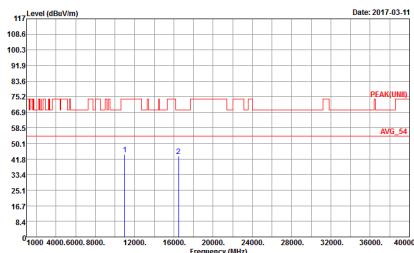
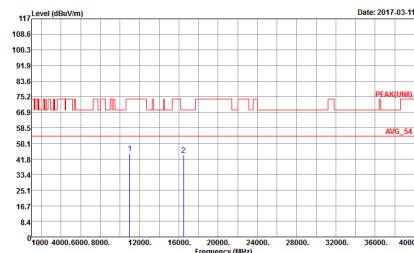


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	 Date: 2017.03.09 Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1241 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 710507-03 Mode : 25	Left blank

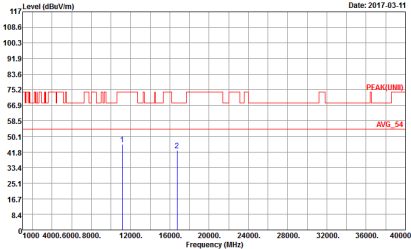
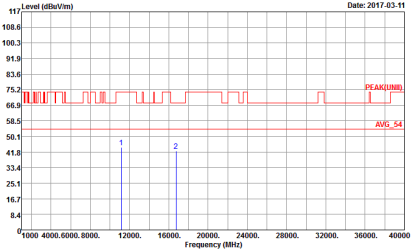


Band 3 - 5470~5725MHz

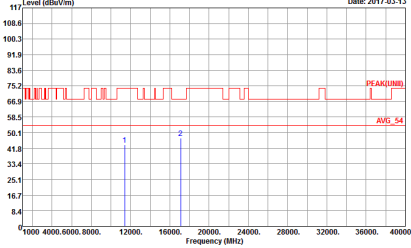
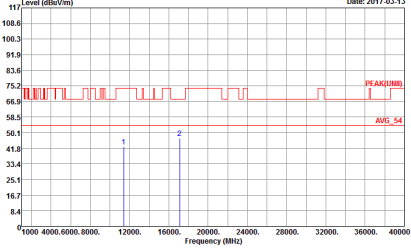
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 17	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 17



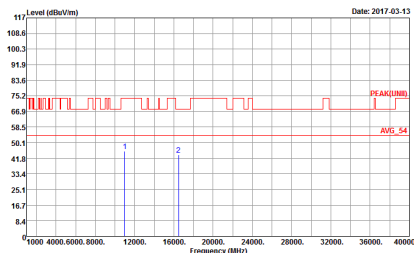
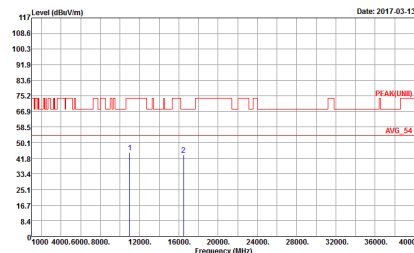
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 18	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 18



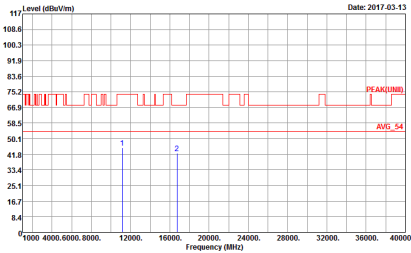
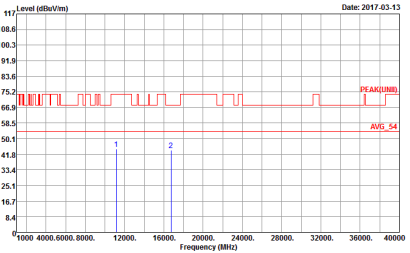
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 19	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 19



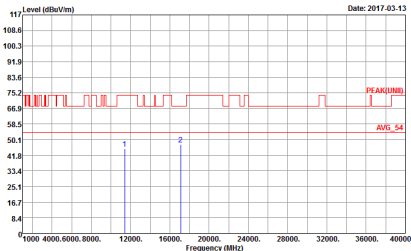
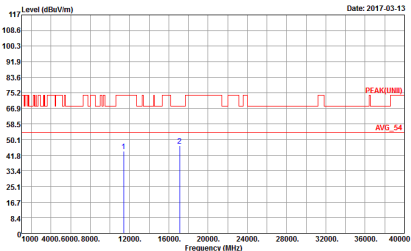
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 20	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 20



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : Z1	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : Z1



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 : 710507-03 Mode : 22	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 22

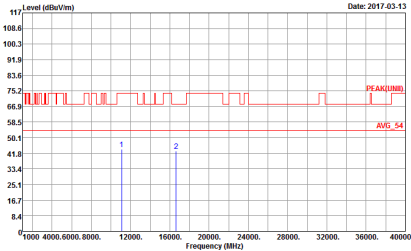
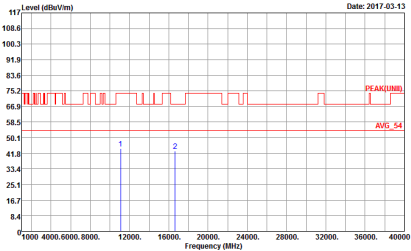


Band 3 5470~5725MHz

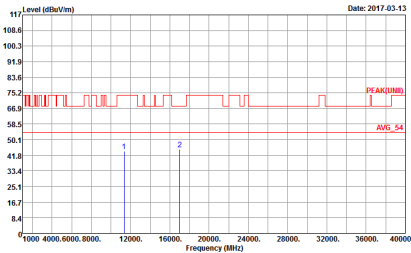
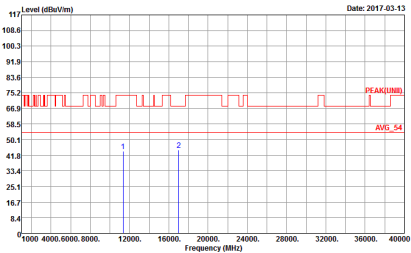
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HV Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 23	Site : 03CH13-HV Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 23



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HV Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 24	 Site : 03CH13-HV Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 24

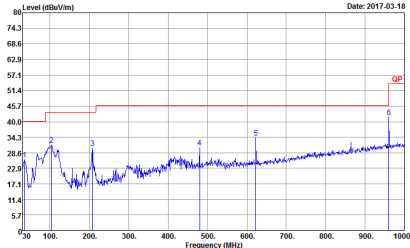
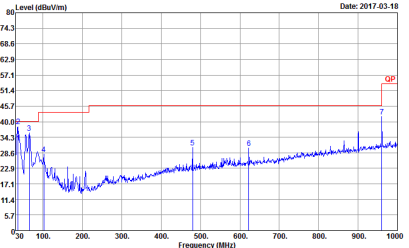


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 25	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 25



Emission below 1GHz

5GHz WIFI 802.11n HT40 (LF)

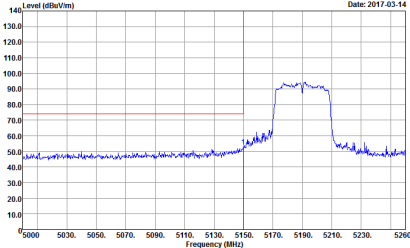
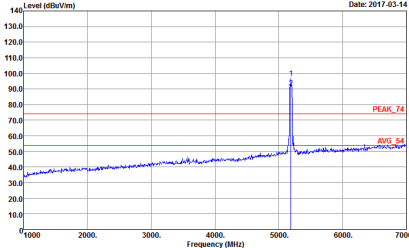
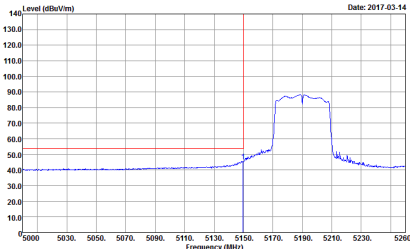
WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m B1LOG_40103 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 26	 Site : 03CH13-HY Condition : QP 3m B1LOG_40103 VERTICAL Detector : Peak Project : 710507-03 Mode : 26



<For Sample 2>

Band 1 - 5150~5250MHz

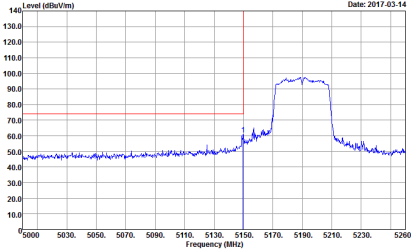
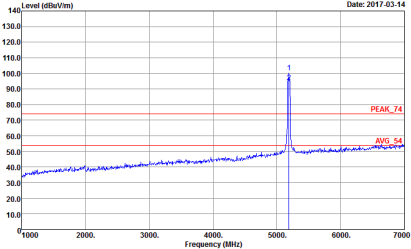
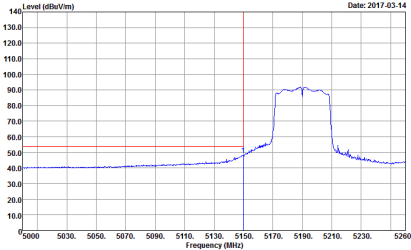
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 27	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 27
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 27	Left blank

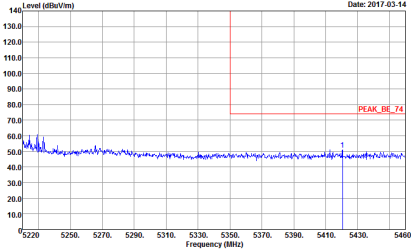
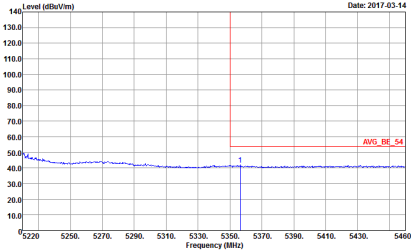


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	Left blank
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	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_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	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_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 710507-03 Mode : 27	Left blank

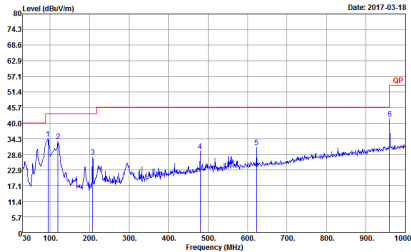
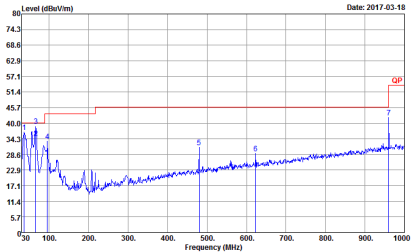


Band 1 - 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 27	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 710507-03 Mode : 27

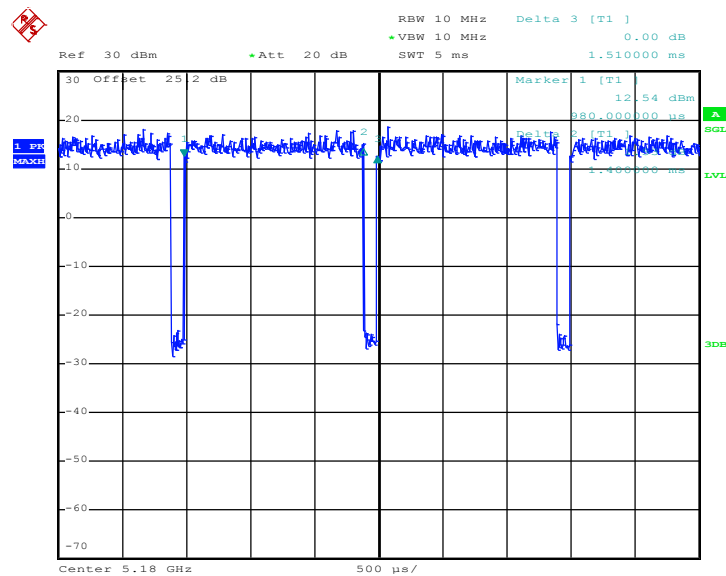
Emission below 1GHz
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m 81LO6_40103 HORIZONTAL Detector : Peak Project : 710507-03 Mode : 28	 Site : 03CH13-HY Condition : QP 3m 81LO6_40103 VERTICAL Detector : Peak Project : 710507-03 Mode : 28

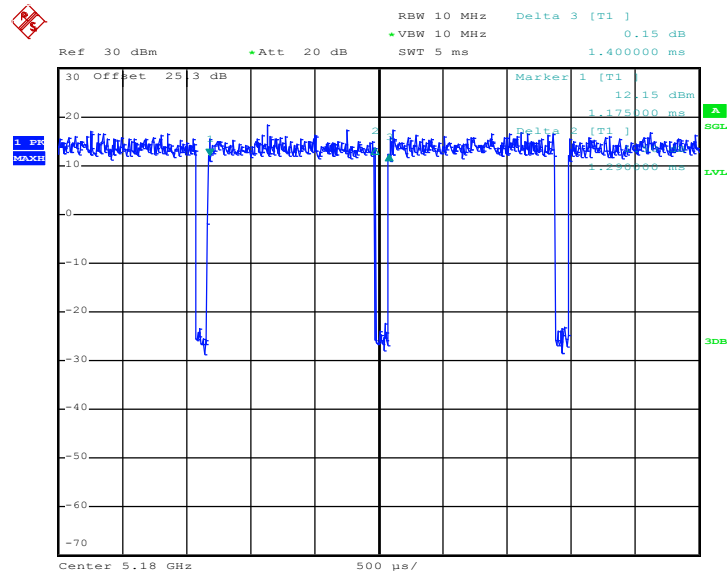
Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	92.715	1400	0.71	1kHz
5GHz 802.11n HT20	92.143	1290	0.78	1kHz
5GHz 802.11n HT40	86.179	636	1.57	3kHz

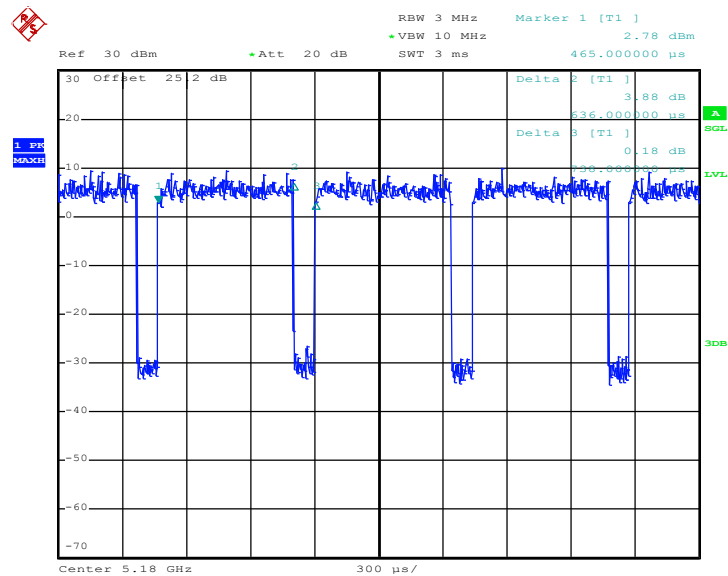
802.11a



Date: 7.FEB.2017 00:46:30

802.11n HT20


Date: 7.FEB.2017 00:56:59

802.11n HT40


Date: 7.FEB.2017 01:25:06