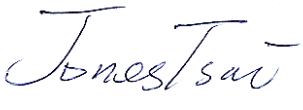
FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	MI
MODEL NAME	:	MEG7
FCC ID	:	2AFZZ-RMMEG7
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Sep. 18, 2017 and testing was completed on Oct. 16, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR791813D	Rev. 01	Initial issue of report	Oct. 20, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 2.39 dB at 11100.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.20 dB at 0.534 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

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, FM Receiver, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / SBAS: PIFA Antenna FM: Integral Antenna (Earphone acting as FM antenna deemed as an integral antenna)

1.4 Modification of EUT

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

1.5 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st 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.**
	03CH11-HY

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

1.6 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
- ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

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

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

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

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

2.2 Test Mode

Final test 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 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + USB Cable 1 (Charging from Adapter) Mode 2 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + USB Cable 2 (Charging from Adapter)

Remark:

1. The worst case of conducted emission is mode 2; only the test data of it was reported.

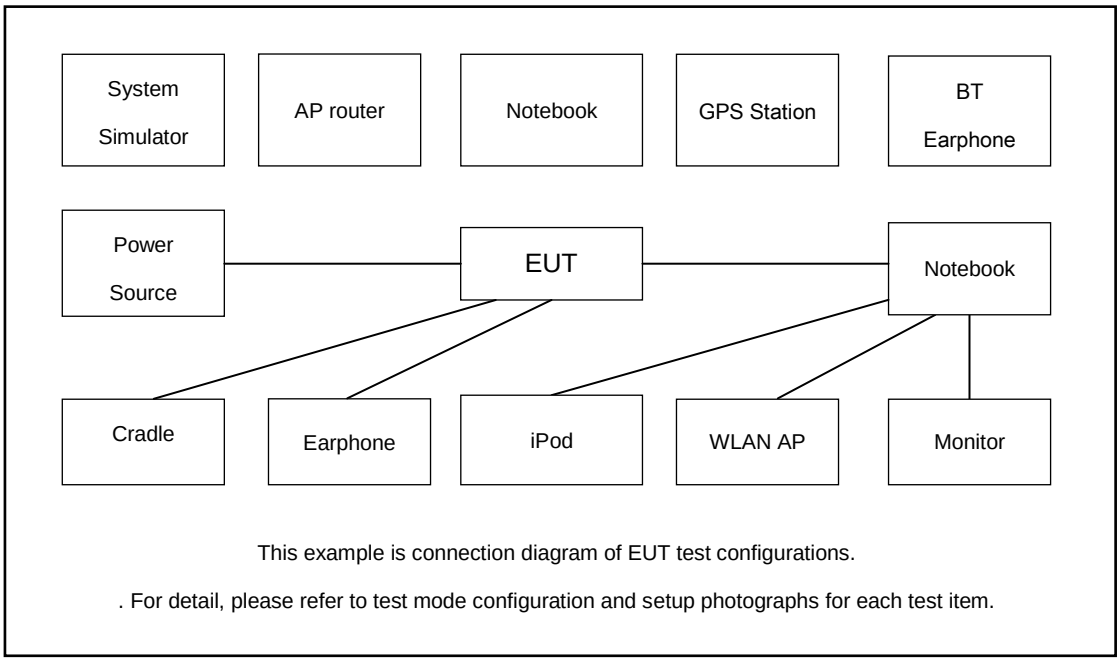
2. For Radiated Test Cases, The tests were performance with Adapter, Earphone and USB Cable 1.

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
Straddle		-	-	144

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

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

2.3 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

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

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

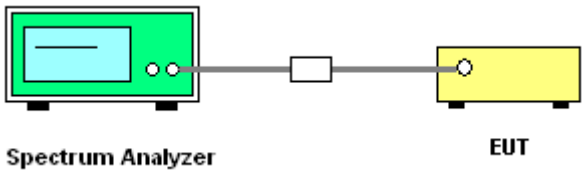
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

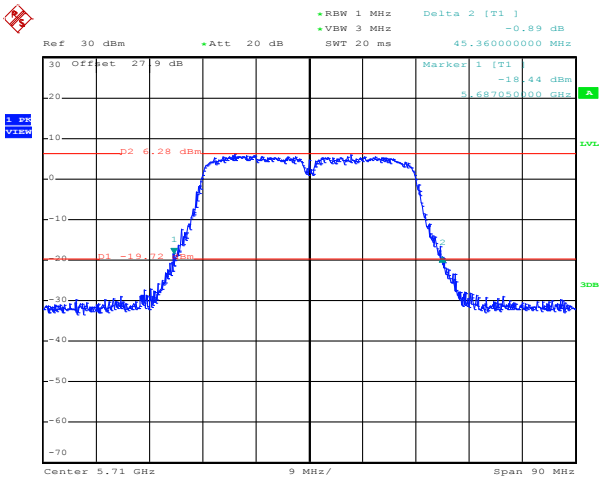
3.1.4 Test Setup



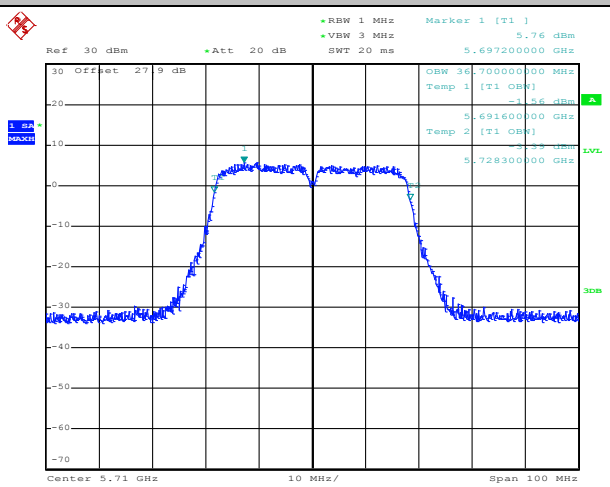
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For 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 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

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

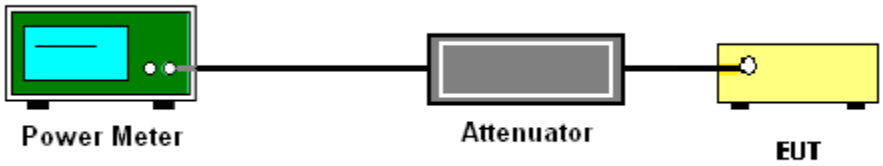
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

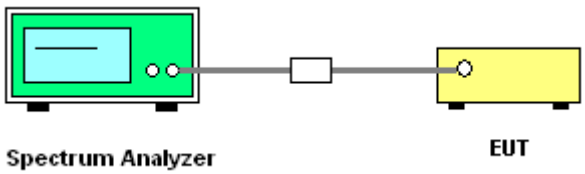
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section F) Maximum power spectral density.

 # Method SA-2 #

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

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 2 Span / RBW.
   - Sweep time = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
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.

Worst Case Power Spectral Density(dBm/MHz)

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.

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

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

(3) KDB789033 D02 v01r04 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.

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

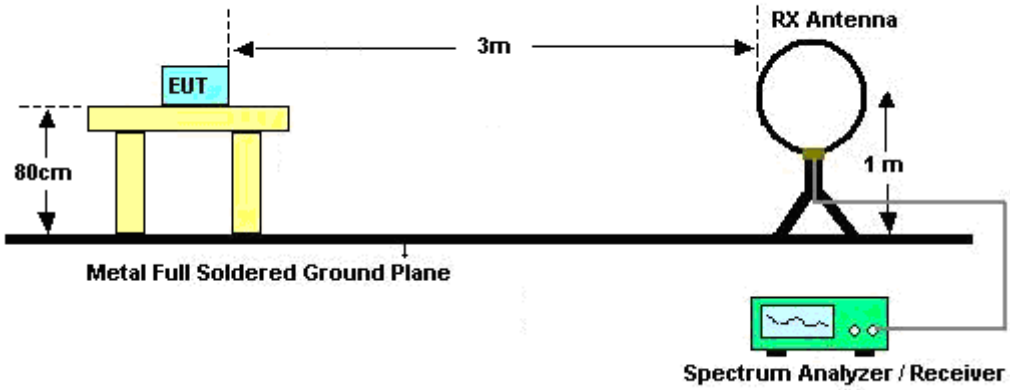
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

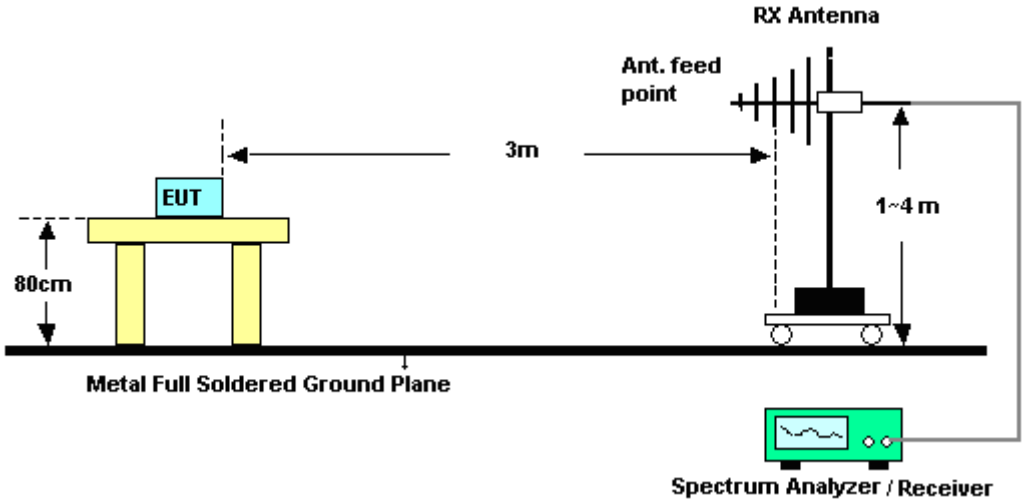
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

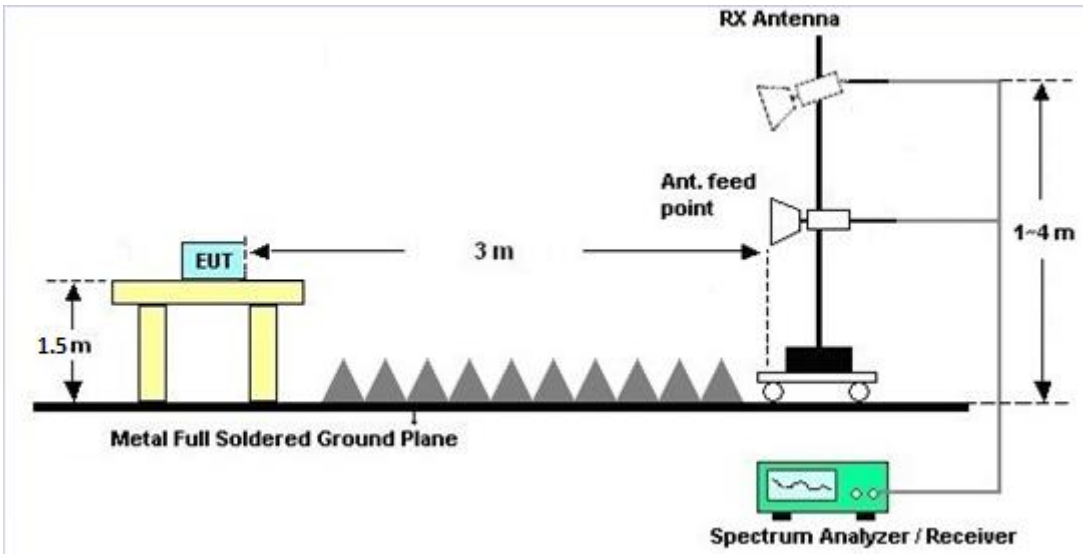
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

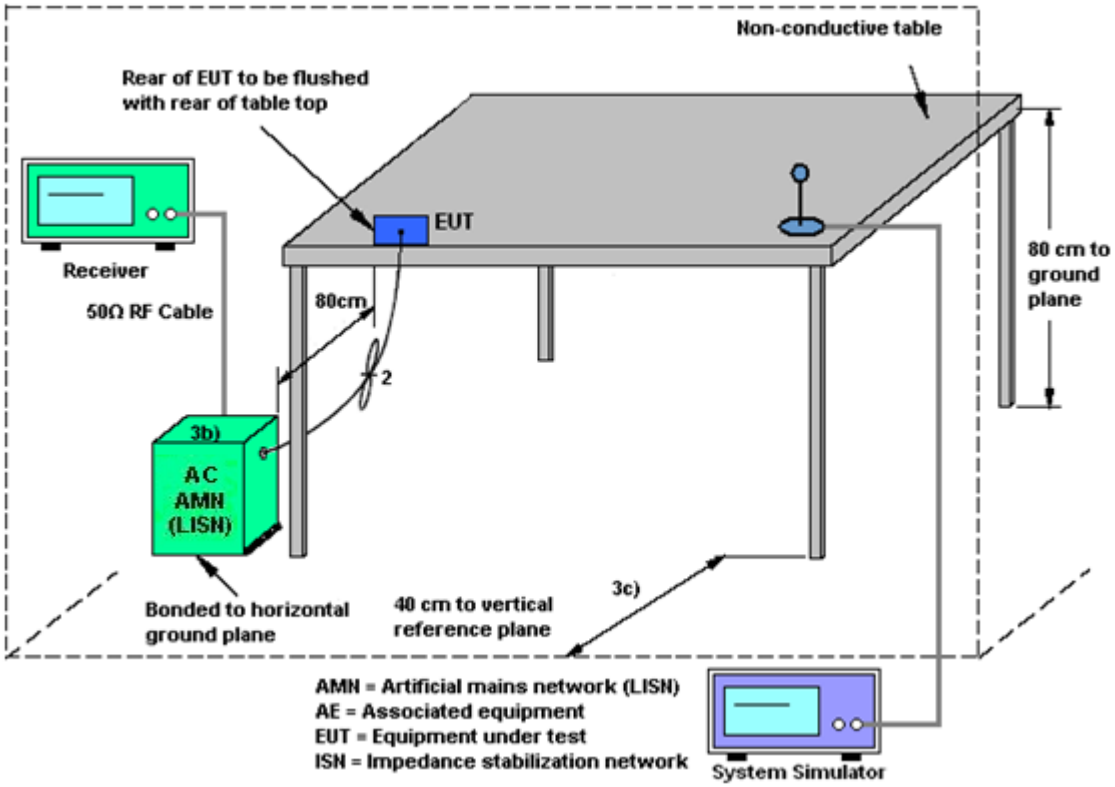
3.5.2 Measuring Instruments

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	1132003	N/A	Aug. 09, 2017	Sep.19, 2017 ~ Oct. 02, 2017	Aug. 08, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 09, 2017	Sep.19, 2017 ~ Oct. 02, 2017	Aug. 08, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 17, 2016	Sep.19, 2017 ~ Oct. 02, 2017	Nov. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Aug. 28, 2017	Sep.19, 2017 ~ Oct. 02, 2017	Aug. 27, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	GEO821763	N/A	Nov. 14, 2016	Sep.19, 2017 ~ Oct. 02, 2017	Nov. 13, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 26, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 20, 2017	Sep. 26, 2017	Sep. 19, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Sep. 26, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Sep. 26, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Sep. 21, 2017 ~ Oct. 16, 2017	Oct. 19, 2018	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	40103&04	30MHz~1GHz	Jan. 07, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Jan. 06, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1212	1GHz ~ 18GHz	Mar. 17, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Mar. 16, 2018	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Sep. 21, 2017 ~ Oct. 16, 2017	Nov. 07, 2017	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Sep. 21, 2017 ~ Oct. 16, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1902247	1GHz~18GHz	Jun. 23, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Jun. 22, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Sep. 21, 2017 ~ Oct. 16, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Jul. 17, 2018	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Jan. 11, 2018	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz ~ 44GHz	Apr. 17, 2017	Sep. 21, 2017 ~ Oct. 16, 2017	Apr. 16, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Sep. 21, 2017 ~ Oct. 16, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Sep. 21, 2017 ~ Oct. 16, 2017	N/A	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.50**

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	ac chang	Temperature:	21~25	°C
Test Date:	2017/9/19~2017/10/02	Relative Humidity:	51~54	%

Report Number : FR791813D

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	18.25	23.80	-	22.61		
11a	6Mbps	1	44	5220	18.25	24.00	-	22.61		
11a	6Mbps	1	48	5240	18.10	24.10	-	22.58		
HT20	MCS0	1	36	5180	19.25	24.20	-	22.84		
HT20	MCS0	1	44	5220	19.00	24.10	-	22.79		
HT20	MCS0	1	48	5240	19.10	24.10	-	22.81		
HT40	MCS0	1	38	5190	36.50	45.00	-	23.01		
HT40	MCS0	1	46	5230	36.50	45.00	-	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	0.59	10.90	24.00	0.15		Pass
11a	6Mbps	1	44	5220	0.59	10.70	24.00	0.15		Pass
11a	6Mbps	1	48	5240	0.59	10.71	24.00	0.15		Pass
HT20	MCS0	1	36	5180	0.63	10.58	24.00	0.15		Pass
HT20	MCS0	1	44	5220	0.63	10.55	24.00	0.15		Pass
HT20	MCS0	1	48	5240	0.63	10.54	24.00	0.15		Pass
HT40	MCS0	1	38	5190	0.67	10.58	24.00	0.15		Pass
HT40	MCS0	1	46	5230	0.67	10.52	24.00	0.15		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	0.59	-1.36	11.00	0.15		Pass
11a	6Mbps	1	44	5220	0.59	-1.31	11.00	0.15		Pass
11a	6Mbps	1	48	5240	0.59	-1.10	11.00	0.15		Pass
HT20	MCS0	1	36	5180	0.63	-0.68	11.00	0.15		Pass
HT20	MCS0	1	44	5220	0.63	-0.52	11.00	0.15		Pass
HT20	MCS0	1	48	5240	0.63	-0.28	11.00	0.15		Pass
HT40	MCS0	1	38	5190	0.67	-3.09	11.00	0.15		Pass
HT40	MCS0	1	46	5230	0.67	-3.06	11.00	0.15		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	18.25	24.00	23.61	29.61	23.98	
11a	6M bps	1	60	5300	18.15	23.70	23.59	29.59	23.98	
11a	6M bps	1	64	5320	18.25	23.30	23.61	29.61	23.98	
HT20	MCS 0	1	52	5260	19.05	24.15	23.80	29.80	23.98	
HT20	MCS 0	1	60	5300	18.95	23.90	23.78	29.78	23.98	
HT20	MCS 0	1	64	5320	19.20	24.00	23.83	29.83	23.98	
HT40	MCS 0	1	54	5270	36.40	44.46	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.40	45.18	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.59	10.66	23.98	0.25	26.99	Pass
11a	6M bps	1	60	5300	0.59	10.62	23.98	0.25	26.99	Pass
11a	6M bps	1	64	5320	0.59	10.86	23.98	0.25	26.99	Pass
HT20	MCS 0	1	52	5260	0.63	10.56	23.98	0.25	26.99	Pass
HT20	MCS 0	1	60	5300	0.63	10.61	23.98	0.25	26.99	Pass
HT20	MCS 0	1	64	5320	0.63	10.85	23.98	0.25	26.99	Pass
HT40	MCS 0	1	54	5270	0.67	10.62	23.98	0.25	26.99	Pass
HT40	MCS 0	1	62	5310	0.67	10.82	23.98	0.25	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	0.59	-1.12	11.00	0.25		Pass
11a	6M bps	1	60	5300	0.59	-1.08	11.00	0.25		Pass
11a	6M bps	1	64	5320	0.59	-0.84	11.00	0.25		Pass
HT20	MCS 0	1	52	5260	0.63	-0.26	11.00	0.25		Pass
HT20	MCS 0	1	60	5300	0.63	-0.41	11.00	0.25		Pass
HT20	MCS 0	1	64	5320	0.63	0.20	11.00	0.25		Pass
HT40	MCS 0	1	54	5270	0.67	-2.66	11.00	0.25		Pass
HT40	MCS 0	1	62	5310	0.67	-2.91	11.00	0.25		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
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)	6dB Bandwidth for Straddle Channel (MHz)
11a	6M bps	1	100	5500	18.20	23.70	23.60	29.60	23.98	----
11a	6M bps	1	116	5580	18.45	23.50	23.66	29.66	23.98	----
11a	6M bps	1	140	5700	18.30	24.20	23.62	29.62	23.98	----
11a	6Mbps	1	144	5720	18.20	23.50	23.60	29.60	23.98	
HT20	MCS 0	1	100	5500	19.35	24.25	23.87	29.87	23.98	----
HT20	MCS 0	1	116	5580	18.95	24.00	23.78	29.78	23.98	----
HT20	MCS 0	1	140	5700	19.05	24.10	23.80	29.80	23.98	----
HT20	MCS0	1	144	5720	19.00	24.10	23.79	29.79	23.98	
HT40	MCS 0	1	102	5510	36.60	45.18	23.98	30.00	23.98	----
HT40	MCS 0	1	110	5550	36.60	45.00	23.98	30.00	23.98	----
HT40	MCS 0	1	134	5670	36.50	45.23	23.98	30.00	23.98	----
HT40	MCS0	1	142	5710	36.70	45.36	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.59	10.90	23.98	1.24	26.99	Pass
11a	6M bps	1	116	5580	0.59	10.76	23.98	1.24	26.99	Pass
11a	6M bps	1	140	5700	0.59	10.72	23.98	1.24	26.99	Pass
11a	6M bps	1	144	5720	0.59	10.65	23.98	1.24	26.99	Pass
HT20	MCS 0	1	100	5500	0.63	10.51	23.98	1.24	26.99	Pass
HT20	MCS 0	1	116	5580	0.63	10.58	23.98	1.24	26.99	Pass
HT20	MCS 0	1	140	5700	0.63	10.71	23.98	1.24	26.99	Pass
HT20	MCS 0	1	144	5720	0.63	10.55	23.98	1.24	26.99	Pass
HT40	MCS 0	1	102	5510	0.67	10.89	23.98	1.24	26.99	Pass
HT40	MCS 0	1	110	5550	0.67	10.68	23.98	1.24	26.99	Pass
HT40	MCS 0	1	134	5670	0.67	10.69	23.98	1.24	26.99	Pass
HT40	MCS 0	1	142	5710	0.67	10.64	23.98	1.24	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.59	0.44	11.00	1.24		Pass
11a	6M bps	1	116	5580	0.59	0.29	11.00	1.24		Pass
11a	6M bps	1	140	5700	0.59	-0.41	11.00	1.24		Pass
11a	6Mbps	1	144	5720	0.59	-1.13	11.00	1.24		Pass
HT20	MCS 0	1	100	5500	0.63	-0.90	11.00	1.24		Pass
HT20	MCS 0	1	116	5580	0.63	-0.71	11.00	1.24		Pass
HT20	MCS 0	1	140	5700	0.63	-0.87	11.00	1.24		Pass
HT20	MCS0	1	144	5720	0.63	-0.71	11.00	1.24		Pass
HT40	MCS 0	1	102	5510	0.67	-2.80	11.00	1.24		Pass
HT40	MCS 0	1	110	5550	0.67	-2.44	11.00	1.24		Pass
HT40	MCS 0	1	134	5670	0.67	-3.00	11.00	1.24		Pass
HT40	MCS0	1	142	5710	0.67	-3.35	11.00	1.24		Pass

Report Number : FR791813D

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	50	3.85	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	-30	3.85	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.4	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.4	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.85	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	50	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.4	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.85	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	3.85	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.85	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.4	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	3.4	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	3.85	

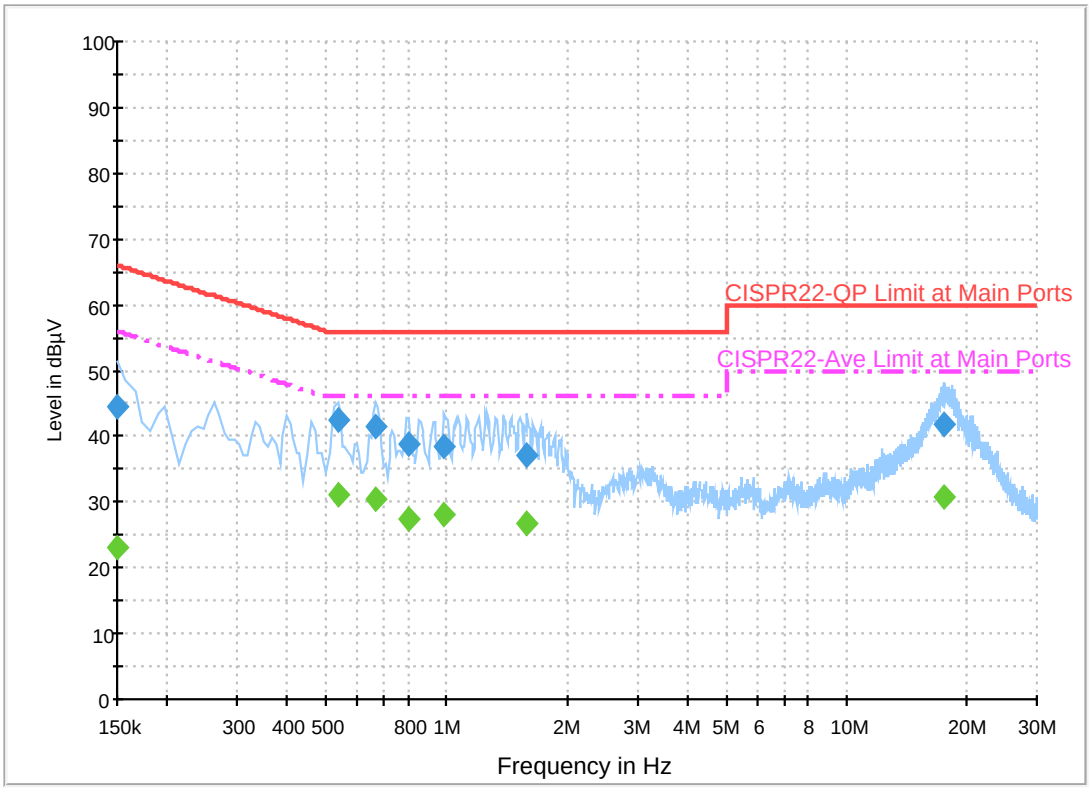
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	**Temperature :**	26~27℃
		Relative Humidity :	38~39%

EUT Information

Report NO :	791813
Test Mode :	Mode 2
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)
0.150000	44.4	Off	L1	19.6	21.6	66.0
0.534000	42.6	Off	L1	19.6	13.4	56.0
0.662000	41.4	Off	L1	19.6	14.6	56.0
0.806000	38.7	Off	L1	19.6	17.3	56.0
0.990000	38.5	Off	L1	19.6	17.5	56.0
1.590000	37.3	Off	L1	19.6	18.7	56.0
17.574000	41.8	Off	L1	20.5	18.2	60.0

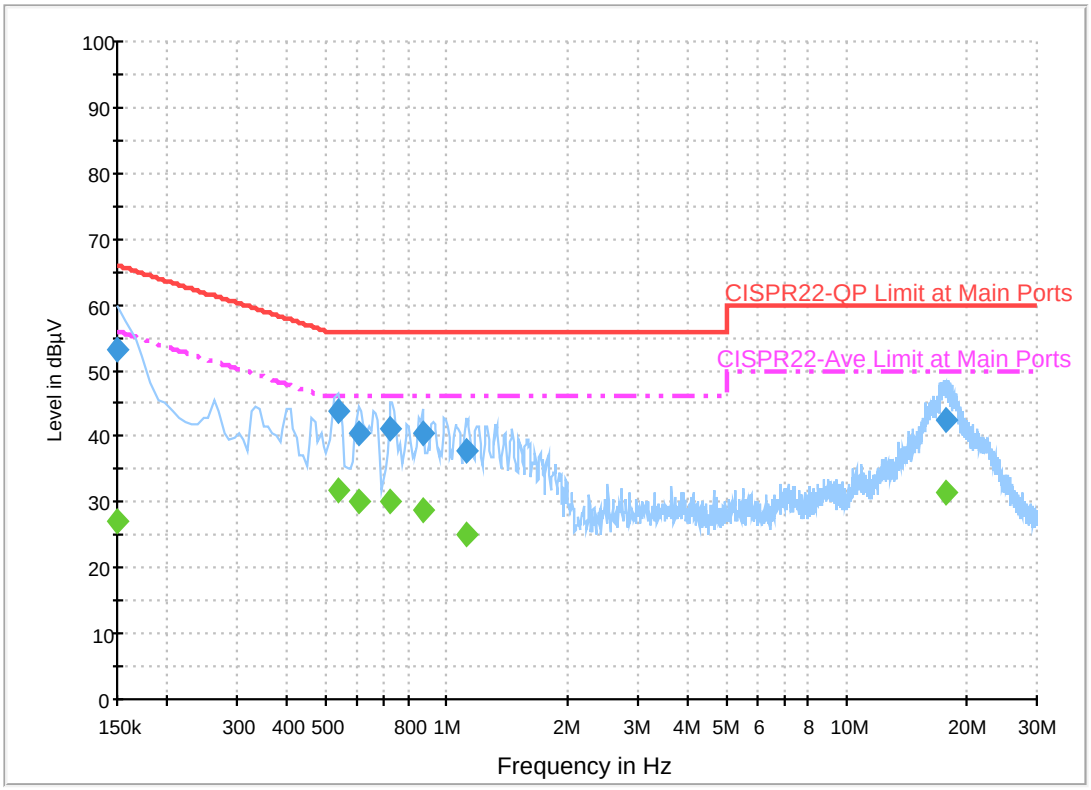
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	23.0	Off	L1	19.6	33.0	56.0
0.534000	31.0	Off	L1	19.6	15.0	46.0
0.662000	30.3	Off	L1	19.6	15.7	46.0
0.806000	27.4	Off	L1	19.6	18.6	46.0
0.990000	28.1	Off	L1	19.6	17.9	46.0
1.590000	26.9	Off	L1	19.6	19.1	46.0
17.574000	30.9	Off	L1	20.5	19.1	50.0

EUT Information

Report NO :	791813
Test Mode :	Mode 2
Test Voltage :	120Vac/60Hz
Phase :	Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	53.2	Off	N	19.5	12.8	66.0
0.534000	43.8	Off	N	19.5	12.2	56.0
0.606000	40.5	Off	N	19.5	15.5	56.0
0.726000	41.2	Off	N	19.5	14.8	56.0
0.870000	40.5	Off	N	19.6	15.5	56.0
1.118000	38.0	Off	N	19.6	18.0	56.0
17.846000	42.6	Off	N	20.6	17.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	27.1	Off	N	19.5	28.9	56.0
0.534000	31.7	Off	N	19.5	14.3	46.0
0.606000	30.2	Off	N	19.5	15.8	46.0
0.726000	30.1	Off	N	19.5	15.9	46.0
0.870000	28.6	Off	N	19.6	17.4	46.0
1.118000	25.2	Off	N	19.6	20.8	46.0
17.846000	31.4	Off	N	20.6	18.6	50.0

Appendix C. Radiated Spurious Emission

Test Engineer :	J.C. Liang / Jacky Hung / Ken Wu	Temperature :	24~26℃
		Relative Humidity :	50~55%

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		5005.46	49.74	-24.26	74	41.91	31.92	8.95	33.04	100	121	P	H
		5127.92	42.45	-11.55	54	34.42	32.03	9.03	33.03	100	121	A	H
	*	5180	100.03	-	-	91.91	32.08	9.07	33.03	100	121	P	H
	*	5180	93.18	-	-	85.06	32.08	9.07	33.03	100	121	A	H
													H
													H
		5127.66	51.64	-22.36	74	43.61	32.03	9.03	33.03	100	297	P	V
		5127.4	45.56	-8.44	54	37.53	32.03	9.03	33.03	100	297	A	V
	*	5180	104.34	-	-	96.22	32.08	9.07	33.03	100	297	P	V
	*	5180	97.2	-	-	89.08	32.08	9.07	33.03	100	297	A	V
													V
													V
802.11a CH 44 5220MHz		5005.72	49.62	-24.38	74	41.79	31.92	8.95	33.04	100	121	P	H
		5026.52	40.74	-13.26	54	32.9	31.93	8.95	33.04	100	121	A	H
	*	5220	99.74	-	-	91.54	32.12	9.11	33.03	100	121	P	H
	*	5220	91.81	-	-	83.61	32.12	9.11	33.03	100	121	A	H
		5370.48	48.05	-25.95	74	39.61	32.27	9.2	33.03	100	121	P	H
		5455.2	39.69	-14.31	54	31.07	32.35	9.29	33.02	100	121	A	H
		5074.1	49.12	-24.88	74	41.19	31.98	8.99	33.04	100	296	P	V
		5031.72	41.01	-12.99	54	33.15	31.93	8.97	33.04	100	296	A	V
	*	5220	104.75	-	-	96.55	32.12	9.11	33.03	100	296	P	V
	*	5220	95.58	-	-	87.38	32.12	9.11	33.03	100	296	A	V
		5399.04	48.45	-25.55	74	39.95	32.3	9.22	33.02	100	296	P	V
		5440.32	39.84	-14.16	54	31.27	32.33	9.26	33.02	100	296	A	V

802.11a CH 48 5240MHz		5111.02	50.06	-23.94	74	42.05	32.02	9.03	33.04	100	118	P	H
		5064.48	41.02	-12.98	54	33.1	31.97	8.99	33.04	100	118	A	H
	*	5240	100.66	-	-	92.44	32.13	9.12	33.03	100	118	P	H
	*	5240	92.45	-	-	84.23	32.13	9.12	33.03	100	118	A	H
		5352	48.25	-25.75	74	39.84	32.25	9.19	33.03	100	118	P	H
		5442.72	40.32	-13.68	54	31.75	32.33	9.26	33.02	100	118	A	H
		5039.78	50.48	-23.52	74	42.6	31.95	8.97	33.04	100	301	P	V
		5049.14	41.32	-12.68	54	33.44	31.95	8.97	33.04	100	301	A	V
	*	5240	104.96	-	-	96.74	32.13	9.12	33.03	100	301	P	V
	*	5240	96.9	-	-	88.68	32.13	9.12	33.03	100	301	A	V
		5391.84	49.07	-24.93	74	40.61	32.28	9.2	33.02	100	301	P	V
		5427.12	40.44	-13.56	54	31.88	32.32	9.26	33.02	100	301	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	53.15	-20.85	74	63.81	38.47	14.63	64.07	100	17	P	H
		10360	48.07	-5.93	54	58.73	38.47	14.63	64.07	100	17	A	H
		15540	46.78	-27.22	74	51.79	39.02	17.95	62.37	100	0	P	H
													H
		10360	45.98	-28.02	74	56.64	38.47	14.63	64.07	100	0	P	V
		15540	47.58	-26.42	74	52.59	39.02	17.95	62.37	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	53.95	-20.05	74	64.56	38.49	14.68	64.09	100	17	P	H
		10440	48.14	-5.86	54	58.75	38.49	14.68	64.09	100	17	A	H
		15660	47.67	-26.33	74	52.44	38.73	18.06	61.91	100	0	P	H
													H
		10440	46.69	-27.31	74	57.3	38.49	14.68	64.09	100	0	P	V
		15660	46.88	-27.12	74	51.65	38.73	18.06	61.91	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	53.68	-20.32	74	64.25	38.5	14.72	64.1	100	17	P	H
		10480	48.11	-5.89	54	58.68	38.5	14.72	64.1	100	17	A	H
		15720	45.08	-28.92	74	49.74	38.56	18.1	61.65	100	0	P	H
													H
		10480	47.46	-26.54	74	58.03	38.5	14.72	64.1	100	0	P	V
		15720	45.61	-28.39	74	50.27	38.56	18.1	61.65	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)
		5126.62	49.87	-24.13	74	41.84	32.03	9.03	33.03	100	121	P	H
		5128.44	42.59	-11.41	54	34.56	32.03	9.03	33.03	100	121	A	H
	*	5180	98.88	-	-	90.76	32.08	9.07	33.03	100	121	P	H
	*	5180	91.81	-	-	83.69	32.08	9.07	33.03	100	121	A	H
802.11n													H
HT20													H
CH 36		5127.66	50.67	-23.33	74	42.64	32.03	9.03	33.03	100	296	P	V
5180MHz		5128.44	45.18	-8.82	54	37.15	32.03	9.03	33.03	100	296	A	V
	*	5180	103.82	-	-	95.7	32.08	9.07	33.03	100	296	P	V
	*	5180	96.47	-	-	88.35	32.08	9.07	33.03	100	296	A	V
													V
													V
		5048.36	49.19	-24.81	74	41.31	31.95	8.97	33.04	100	121	P	H
		5079.3	40.64	-13.36	54	32.71	31.98	8.99	33.04	100	121	A	H
	*	5220	98.86	-	-	90.66	32.12	9.11	33.03	100	121	P	H
	*	5220	93.51	-	-	85.31	32.12	9.11	33.03	100	121	A	H
802.11n		5450.88	49	-25	74	40.38	32.35	9.29	33.02	100	121	P	H
HT20		5456.4	39.73	-14.27	54	31.11	32.35	9.29	33.02	100	121	A	H
CH 44		5074.62	49.71	-24.29	74	41.78	31.98	8.99	33.04	100	297	P	V
5220MHz		5025.48	40.95	-13.05	54	33.11	31.93	8.95	33.04	100	297	A	V
	*	5220	102.59	-	-	94.39	32.12	9.11	33.03	100	297	P	V
	*	5220	94.33	-	-	86.13	32.12	9.11	33.03	100	297	A	V
		5372.4	49.36	-24.64	74	40.92	32.27	9.2	33.03	100	297	P	V
		5428.8	39.95	-14.05	54	31.38	32.33	9.26	33.02	100	297	A	V

802.11n HT20 CH 48 5240MHz		5121.42	49.69	-24.31	74	41.67	32.02	9.03	33.03	100	121	P	H
		5080.08	40.49	-13.51	54	32.56	31.98	8.99	33.04	100	121	A	H
	*	5240	98.61	-	-	90.39	32.13	9.12	33.03	100	121	P	H
	*	5240	90.74	-	-	82.52	32.13	9.12	33.03	100	121	A	H
		5442.96	48.58	-25.42	74	40.01	32.33	9.26	33.02	100	121	P	H
		5452.32	39.76	-14.24	54	31.14	32.35	9.29	33.02	100	121	A	H
		5004.42	49.87	-24.13	74	42.04	31.92	8.95	33.04	100	296	P	V
		5056.16	41.24	-12.76	54	33.32	31.97	8.99	33.04	100	296	A	V
	*	5240	103.72	-	-	95.5	32.13	9.12	33.03	100	296	P	V
	*	5240	94.72	-	-	86.5	32.13	9.12	33.03	100	296	A	V
		5415.36	49.1	-24.9	74	40.58	32.32	9.22	33.02	100	296	P	V
		5429.76	40.25	-13.75	54	31.68	32.33	9.26	33.02	100	296	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)
		10360	53.1	-20.9	74	63.76	38.47	14.63	64.07	100	301	P	H
		10360	47.91	-6.09	54	58.57	38.47	14.63	64.07	100	301	A	H
802.11n		15540	47.27	-26.73	74	52.28	39.02	17.95	62.37	100	0	P	H
HT20													H
CH 36		10360	45.79	-28.21	74	56.45	38.47	14.63	64.07	100	0	P	V
5180MHz		15540	47.11	-26.89	74	52.12	39.02	17.95	62.37	100	0	P	V
													V
													V
		10440	53.66	-20.34	74	64.27	38.49	14.68	64.09	100	300	P	H
		10440	47.89	-6.11	54	58.5	38.49	14.68	64.09	100	300	A	H
802.11n		15660	46.5	-27.5	74	51.27	38.73	18.06	61.91	100	0	P	H
HT20													H
CH 44		10440	46.81	-27.19	74	57.42	38.49	14.68	64.09	100	0	P	V
5220MHz		15660	47.81	-26.19	74	52.58	38.73	18.06	61.91	100	0	P	V
													V
													V
		10480	53.66	-20.34	74	64.23	38.5	14.72	64.1	100	325	P	H
		10480	48.16	-5.84	54	58.73	38.5	14.72	64.1	100	325	A	H
802.11n		15720	45.46	-28.54	74	50.12	38.56	18.1	61.65	100	0	P	H
HT20													H
CH 48		10480	47.42	-26.58	74	57.99	38.5	14.72	64.1	100	0	P	V
5240MHz		15720	46.29	-27.71	74	50.95	38.56	18.1	61.65	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		5148.2	49.3	-24.7	74	41.23	32.05	9.05	33.03	100	119	P	H
		5146.9	42.28	-11.72	54	34.21	32.05	9.05	33.03	100	119	A	H
	*	5190	97.7	-	-	89.56	32.08	9.09	33.03	100	119	P	H
	*	5190	90.46	-	-	82.32	32.08	9.09	33.03	100	119	A	H
		5415.2	49.74	-24.26	74	41.22	32.32	9.22	33.02	100	119	P	H
		5406.8	40.55	-13.45	54	32.05	32.3	9.22	33.02	100	119	A	H
		5147.94	52.38	-21.62	74	44.31	32.05	9.05	33.03	100	297	P	V
		5149.76	45	-9	54	36.93	32.05	9.05	33.03	100	297	A	V
	*	5190	102.66	-	-	94.52	32.08	9.09	33.03	100	297	P	V
	*	5190	95.28	-	-	87.14	32.08	9.09	33.03	100	297	A	V
		5443.76	48.53	-25.47	74	39.96	32.33	9.26	33.02	100	297	P	V
		5418	40.77	-13.23	54	32.25	32.32	9.22	33.02	100	297	A	V
802.11n HT40 CH 46 5230MHz		5116.48	49.12	-24.88	74	41.11	32.02	9.03	33.04	100	118	P	H
		5043.16	41.62	-12.38	54	33.74	31.95	8.97	33.04	100	118	A	H
	*	5230	97.41	-	-	89.2	32.13	9.11	33.03	100	118	P	H
	*	5230	89.96	-	-	81.75	32.13	9.11	33.03	100	118	A	H
		5429.48	47.67	-26.33	74	39.1	32.33	9.26	33.02	100	118	P	H
		5442.64	40.54	-13.46	54	31.97	32.33	9.26	33.02	100	118	A	H
		5134.68	49.34	-24.66	74	41.29	32.03	9.05	33.03	100	298	P	V
		5127.14	43.13	-10.87	54	35.1	32.03	9.03	33.03	100	298	A	V
	*	5230	101.17	-	-	92.96	32.13	9.11	33.03	100	298	P	V
	*	5230	94.4	-	-	86.19	32.13	9.11	33.03	100	298	A	V
		5422.48	48.89	-25.11	74	40.33	32.32	9.26	33.02	100	298	P	V
		5456.36	40.92	-13.08	54	32.3	32.35	9.29	33.02	100	298	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)
		10380	49.64	-24.36	74	60.29	38.48	14.64	64.08	100	0	P	H
		15570	45.86	-28.14	74	50.81	38.93	17.98	62.24	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	46.49	-27.51	74	57.14	38.48	14.64	64.08	100	0	P	V
5190MHz		15570	47.21	-26.79	74	52.16	38.93	17.98	62.24	100	0	P	V
													V
													V
		10460	52.54	-21.46	74	63.14	38.49	14.69	64.09	100	17	P	H
		10460	48.95	-5.05	54	59.55	38.49	14.69	64.09	100	17	A	H
802.11n		15690	47.01	-26.99	74	51.74	38.64	18.07	61.78	100	0	P	H
HT40													H
CH 46		10460	47.76	-26.24	74	58.36	38.49	14.69	64.09	100	0	P	V
5230MHz		15690	47.78	-26.22	74	52.51	38.64	18.07	61.78	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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		5102.68	50.13	-23.87	74	42.16	32	9.01	33.04	100	117	P	H
		5070.72	41.09	-12.91	54	33.17	31.97	8.99	33.04	100	117	A	H
	*	5260	101.29	-	-	93.03	32.17	9.12	33.03	100	117	P	H
	*	5260	92.51	-	-	84.25	32.17	9.12	33.03	100	117	A	H
		5400	49.22	-24.78	74	40.72	32.3	9.22	33.02	100	117	P	H
		5449.44	40.34	-13.66	54	31.72	32.35	9.29	33.02	100	117	A	H
		5068.34	49.97	-24.03	74	42.05	31.97	8.99	33.04	100	301	P	V
		5074.46	41.39	-12.61	54	33.46	31.98	8.99	33.04	100	301	A	V
	*	5260	105.05	-	-	96.79	32.17	9.12	33.03	100	301	P	V
	*	5260	96.94	-	-	88.68	32.17	9.12	33.03	100	301	A	V
		5390.88	49.21	-24.79	74	40.75	32.28	9.2	33.02	100	301	P	V
		5449.2	40.5	-13.5	54	31.88	32.35	9.29	33.02	100	301	A	V
802.11a CH 60 5300MHz		5145.86	50.54	-23.46	74	42.47	32.05	9.05	33.03	100	117	P	H
		5106.42	41	-13	54	33.01	32.02	9.01	33.04	100	117	A	H
	*	5300	101.6	-	-	93.27	32.2	9.16	33.03	100	117	P	H
	*	5300	92.91	-	-	84.58	32.2	9.16	33.03	100	117	A	H
		5408.88	48.44	-25.56	74	39.94	32.3	9.22	33.02	100	117	P	H
		5352.24	42.05	-11.95	54	33.64	32.25	9.19	33.03	100	117	A	H
		5087.38	49.91	-24.09	74	41.96	31.98	9.01	33.04	106	300	P	V
		5104.38	41.16	-12.84	54	33.19	32	9.01	33.04	106	300	A	V
	*	5300	105.08	-	-	96.75	32.2	9.16	33.03	106	300	P	V
	*	5300	96.92	-	-	88.59	32.2	9.16	33.03	106	300	A	V
		5353.2	49.4	-24.6	74	40.99	32.25	9.19	33.03	106	300	P	V
		5352.24	44	-10	54	35.59	32.25	9.19	33.03	106	300	A	V

802.11a CH 64 5320MHz	*	5320	100.88	-	-	92.52	32.22	9.17	33.03	100	118	P	H
	*	5320	92.52	-	-	84.16	32.22	9.17	33.03	100	118	A	H
		5436.96	49.6	-24.4	74	41.03	32.33	9.26	33.02	100	118	P	H
		5372.16	42.13	-11.87	54	33.69	32.27	9.2	33.03	100	118	A	H
													H
													H
	*	5320	105.87	-	-	97.51	32.22	9.17	33.03	103	300	P	V
	*	5320	97.37	-	-	89.01	32.22	9.17	33.03	103	300	A	V
		5373.44	50.25	-23.75	74	41.8	32.27	9.2	33.02	103	300	P	V
		5372.16	44.55	-9.45	54	36.11	32.27	9.2	33.03	103	300	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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	53.48	-20.52	74	64	38.53	14.74	64.1	100	17	P	H
		10520	48.31	-5.69	54	58.83	38.53	14.74	64.1	100	17	A	H
		15780	46.77	-27.23	74	51.32	38.44	18.15	61.45	100	0	P	H
													H
		10520	47.37	-26.63	74	57.89	38.53	14.74	64.1	100	0	P	V
		15780	46.13	-27.87	74	50.68	38.44	18.15	61.45	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10597	54.31	-19.69	74	64.57	38.71	14.8	64.08	100	17	P	H
		10597	49.2	-4.8	54	59.46	38.71	14.8	64.08	100	17	A	H
		15900	46.4	-27.6	74	50.71	38.15	18.25	60.99	100	0	P	H
													H
		10600	46.96	-27.04	74	57.22	38.71	14.8	64.08	100	0	P	V
		15900	47.13	-26.87	74	51.44	38.15	18.25	60.99	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	53.77	-20.23	74	63.94	38.78	14.82	64.07	100	301	P	H
		10640	50.06	-3.94	54	60.23	38.78	14.82	64.07	100	301	A	H
		15960	47.7	-26.3	74	51.89	37.98	18.3	60.73	100	0	P	H
													H
		10640	47.25	-26.75	74	57.42	38.78	14.82	64.07	100	0	P	V
		15960	47.15	-26.85	74	51.34	37.98	18.3	60.73	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)
		5101.66	48.81	-25.19	74	40.84	32	9.01	33.04	100	121	P	H
		5079.22	40.85	-13.15	54	32.92	31.98	8.99	33.04	100	121	A	H
	*	5260	99.88	-	-	91.62	32.17	9.12	33.03	100	121	P	H
	*	5260	90.52	-	-	82.26	32.17	9.12	33.03	100	121	A	H
802.11n		5431.92	49.84	-24.16	74	41.27	32.33	9.26	33.02	100	121	P	H
HT20		5446.08	39.78	-14.22	54	31.16	32.35	9.29	33.02	100	121	A	H
CH 52		5125.8	48.89	-25.11	74	40.86	32.03	9.03	33.03	100	297	P	V
5260MHz		5062.56	41.2	-12.8	54	33.28	31.97	8.99	33.04	100	297	A	V
	*	5260	102.94	-	-	94.68	32.17	9.12	33.03	100	297	P	V
	*	5260	94.97	-	-	86.71	32.17	9.12	33.03	100	297	A	V
		5449.92	49.56	-24.44	74	40.94	32.35	9.29	33.02	100	297	P	V
		5454.72	40.04	-13.96	54	31.42	32.35	9.29	33.02	100	297	A	V
		5120.02	49.26	-24.74	74	41.24	32.02	9.03	33.03	100	121	P	H
		5115.26	40.58	-13.42	54	32.57	32.02	9.03	33.04	100	121	A	H
	*	5300	99.54	-	-	91.21	32.2	9.16	33.03	100	121	P	H
	*	5300	90.18	-	-	81.85	32.2	9.16	33.03	100	121	A	H
802.11n		5362.32	48.51	-25.49	74	40.08	32.27	9.19	33.03	100	121	P	H
HT20		5351.76	41.65	-12.35	54	33.24	32.25	9.19	33.03	100	121	A	H
CH 60		5045.56	49.28	-24.72	74	41.4	31.95	8.97	33.04	100	303	P	V
5300MHz		5106.76	40.87	-13.13	54	32.88	32.02	9.01	33.04	100	303	A	V
	*	5300	103.49	-	-	95.16	32.2	9.16	33.03	100	303	P	V
	*	5300	94.78	-	-	86.45	32.2	9.16	33.03	100	303	A	V
		5351.76	51.08	-22.92	74	42.67	32.25	9.19	33.03	100	303	P	V
		5351.52	44.06	-9.94	54	35.65	32.25	9.19	33.03	100	303	A	V

	*	5320	98.59	-	-	90.23	32.22	9.17	33.03	100	123	P	H
	*	5320	90	-	-	81.64	32.22	9.17	33.03	100	123	A	H
		5377.12	48.62	-25.38	74	40.17	32.27	9.2	33.02	100	123	P	H
		5371.68	41.63	-12.37	54	33.19	32.27	9.2	33.03	100	123	A	H
802.11n													H
HT20													H
CH 64	*	5320	103.93	-	-	95.57	32.22	9.17	33.03	100	303	P	V
5320MHz	*	5320	94.79	-	-	86.43	32.22	9.17	33.03	100	303	A	V
		5372.96	49.86	-24.14	74	41.42	32.27	9.2	33.03	100	303	P	V
		5371.68	44.17	-9.83	54	35.73	32.27	9.2	33.03	100	303	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)
		10520	53.22	-20.78	74	63.74	38.53	14.74	64.1	100	324	P	H
		10520	48.06	-5.94	54	58.58	38.53	14.74	64.1	100	324	A	H
802.11n		15780	46.37	-27.63	74	50.92	38.44	18.15	61.45	100	0	P	H
HT20													H
CH 52		10520	48.3	-25.7	74	58.82	38.53	14.74	64.1	100	0	P	V
5260MHz		15780	46.71	-27.29	74	51.26	38.44	18.15	61.45	100	0	P	V
													V
													V
		10600	54.17	-19.83	74	64.43	38.71	14.8	64.08	100	325	P	H
		10600	49.21	-4.79	54	59.47	38.71	14.8	64.08	100	325	A	H
802.11n		15900	47.41	-26.59	74	51.72	38.15	18.25	60.99	100	0	P	H
HT20													H
CH 60		10600	47.32	-26.68	74	57.58	38.71	14.8	64.08	100	0	P	V
5300MHz		15900	47.53	-26.47	74	51.84	38.15	18.25	60.99	100	0	P	V
													V
													V
		10640	50.13	-23.87	74	60.3	38.78	14.82	64.07	100	326	P	H
		10640	50.13	-3.87	54	60.3	38.78	14.82	64.07	100	326	A	H
802.11n		15960	45.41	-28.59	74	49.6	37.98	18.3	60.73	100	0	P	H
HT20													H
CH 64		10640	47.18	-26.82	74	57.35	38.78	14.82	64.07	100	0	P	V
5320MHz		15960	46.41	-27.59	74	50.6	37.98	18.3	60.73	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		5025.16	48.59	-25.41	74	40.75	31.93	8.95	33.04	100	119	P	H
		5060.18	41.59	-12.41	54	33.67	31.97	8.99	33.04	100	119	A	H
	*	5270	97.64	-	-	89.36	32.17	9.14	33.03	100	119	P	H
	*	5270	90.51	-	-	82.23	32.17	9.14	33.03	100	119	A	H
		5366.4	49.16	-24.84	74	40.73	32.27	9.19	33.03	100	119	P	H
		5373.84	40.57	-13.43	54	32.12	32.27	9.2	33.02	100	119	A	H
		5012.58	49.38	-24.62	74	41.55	31.92	8.95	33.04	100	299	P	V
		5066.64	41.74	-12.26	54	33.82	31.97	8.99	33.04	100	299	A	V
	*	5270	102.6	-	-	94.32	32.17	9.14	33.03	100	299	P	V
	*	5270	94.51	-	-	86.23	32.17	9.14	33.03	100	299	A	V
		5373.12	48.45	-25.55	74	40.01	32.27	9.2	33.03	100	299	P	V
		5372.4	41.43	-12.57	54	32.99	32.27	9.2	33.03	100	299	A	V
802.11n HT40 CH 62 5310MHz		5071.74	49.12	-24.88	74	41.19	31.98	8.99	33.04	100	118	P	H
		5117.64	41.35	-12.65	54	33.34	32.02	9.03	33.04	100	118	A	H
	*	5310	97.27	-	-	88.92	32.22	9.16	33.03	100	118	P	H
	*	5310	90.06	-	-	81.71	32.22	9.16	33.03	100	118	A	H
		5419.2	48.02	-25.98	74	39.46	32.32	9.26	33.02	100	118	P	H
		5455.2	40.75	-13.25	54	32.13	32.35	9.29	33.02	100	118	A	H
		5128.18	48.72	-25.28	74	40.69	32.03	9.03	33.03	100	301	P	V
		5128.86	41.5	-12.5	54	33.47	32.03	9.03	33.03	100	301	A	V
	*	5310	101.78	-	-	93.43	32.22	9.16	33.03	100	301	P	V
	*	5310	93.58	-	-	85.23	32.22	9.16	33.03	100	301	A	V
		5417.04	48.78	-25.22	74	40.26	32.32	9.22	33.02	100	301	P	V
		5412.96	41.77	-12.23	54	33.25	32.32	9.22	33.02	100	301	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)
		10540	51.34	-22.66	74	61.79	38.57	14.76	64.09	100	43	P	H
		10540	48.13	-5.87	54	58.58	38.57	14.76	64.09	100	43	A	H
802.11n		15810	47.55	-26.45	74	52.02	38.36	18.18	61.32	100	0	P	H
HT40													H
CH 54		10540	46.32	-27.68	74	56.77	38.57	14.76	64.09	100	0	P	V
5270MHz		15810	47.45	-26.55	74	51.92	38.36	18.18	61.32	100	0	P	V
													V
													V
		10620	52.09	-21.91	74	62.32	38.74	14.81	64.08	104	340	P	H
		10620	49.21	-4.79	54	59.44	38.74	14.81	64.08	104	340	A	H
802.11n		15930	45.92	-28.08	74	50.16	38.07	18.28	60.86	100	0	P	H
HT40													H
CH 62		10620	46.35	-27.65	74	56.58	38.74	14.81	64.08	100	0	P	V
5310MHz		15930	45.54	-28.46	74	49.78	38.07	18.28	60.86	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

Band 3 - 5470~5725MHz

WIFI 802.11a (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)
802.11a CH 100 5500MHz		5446.32	49.23	-24.77	74	40.61	32.35	9.29	33.02	100	120	P	H
		5447.76	42.77	-11.23	54	34.15	32.35	9.29	33.02	100	120	A	H
	*	5500	101.51	-	-	92.76	32.4	9.37	33.02	100	120	P	H
	*	5500	94.23	-	-	85.48	32.4	9.37	33.02	100	120	A	H
													H
													H
		5447.6	52.01	-21.99	74	43.39	32.35	9.29	33.02	100	306	P	V
		5447.92	45.01	-8.99	54	36.39	32.35	9.29	33.02	100	306	A	V
	*	5500	105.67	-	-	96.92	32.4	9.37	33.02	100	306	P	V
	*	5500	98.47	-	-	89.72	32.4	9.37	33.02	100	306	A	V
													V
													V
802.11a CH 116 5580MHz		5452	48.99	-25.01	74	40.37	32.35	9.29	33.02	100	117	P	H
		5461.6	40.39	-13.61	54	31.77	32.35	9.29	33.02	100	117	A	H
	*	5580	101.83	-	-	92.85	32.57	9.48	33.07	100	117	P	H
	*	5580	93.09	-	-	84.11	32.57	9.48	33.07	100	117	A	H
		5729.09	49.93	-24.07	74	40.31	32.94	9.81	33.13	100	117	P	H
		5764.055	41.69	-12.31	54	31.88	33.02	9.95	33.16	100	117	A	H
		5367.28	48.48	-25.52	74	40.04	32.27	9.2	33.03	100	298	P	V
		5456.08	40.56	-13.44	54	31.94	32.35	9.29	33.02	100	298	A	V
	*	5580	105.73	-	-	96.75	32.57	9.48	33.07	100	298	P	V
	*	5580	97	-	-	88.02	32.57	9.48	33.07	100	298	A	V
		5750.195	49.67	-24.33	74	39.96	32.98	9.88	33.15	100	298	P	V
		5750.825	41.9	-12.1	54	32.19	32.98	9.88	33.15	100	298	A	V

802.11a CH 140 5700MHz	*	5700	103.33	-	-	93.84	32.86	9.75	33.12	100	118	P	H
	*	5700	94.5	-	-	85.01	32.86	9.75	33.12	100	118	A	H
		5752.12	51.32	-22.68	74	41.57	33.02	9.88	33.15	100	118	P	H
		5752.28	44.02	-9.98	54	34.27	33.02	9.88	33.15	100	118	A	H
													H
													H
	*	5700	105.84	-	-	96.35	32.86	9.75	33.12	100	301	P	V
	*	5700	98.32	-	-	88.83	32.86	9.75	33.12	100	301	A	V
		5753.16	54.08	-19.92	74	44.33	33.02	9.88	33.15	100	301	P	V
		5752.2	46.27	-7.73	54	36.52	33.02	9.88	33.15	100	301	A	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	53.82	-20.18	74	62.94	39.5	15.08	64	100	299	P	H
		11000	50.78	-3.22	54	59.9	39.5	15.08	64	100	299	A	H
		16500	43.77	-30.23	74	49.53	37.9	18.74	62.7	100	0	P	H
													H
		11000	47.67	-26.33	74	56.79	39.5	15.08	64	100	0	P	V
		16500	44.78	-29.22	74	50.54	37.9	18.74	62.7	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	55.85	-18.15	74	64.36	39.67	15.2	63.67	100	300	P	H
		11160	51.05	-2.95	54	59.56	39.67	15.2	63.67	100	300	A	H
		16740	46.92	-27.08	74	50.97	39.4	18.93	62.7	100	0	P	H
													H
		11160	48.32	-25.68	74	56.83	39.67	15.2	63.67	100	0	P	V
		16740	47.5	-26.5	74	51.55	39.4	18.93	62.7	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	53.91	-20.09	74	61.55	39.9	15.38	63.2	100	297	P	H
		11400	48.04	-5.96	54	55.68	39.9	15.38	63.2	100	297	A	H
		17100	48.95	-25.05	74	50.36	41.06	19.18	62	100	0	P	H
													H
		11400	47.46	-26.54	74	55.1	39.9	15.38	63.2	100	0	P	V
		17100	49.11	-24.89	74	50.52	41.06	19.18	62	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)
		5452.88	48.67	-25.33	74	40.05	32.35	9.29	33.02	100	126	P	H
		5448.4	42.27	-11.73	54	33.65	32.35	9.29	33.02	100	126	A	H
	*	5500	98.65	-	-	89.9	32.4	9.37	33.02	100	126	P	H
	*	5500	91.51	-	-	82.76	32.4	9.37	33.02	100	126	A	H
802.11n													H
HT20													H
CH 100		5448.56	51.04	-22.96	74	42.42	32.35	9.29	33.02	100	303	P	V
5500MHz		5448.24	44.9	-9.1	54	36.28	32.35	9.29	33.02	100	303	A	V
	*	5500	103.82	-	-	95.07	32.4	9.37	33.02	100	303	P	V
	*	5500	96.5	-	-	87.75	32.4	9.37	33.02	100	303	A	V
													V
													V
		5461.6	48.55	-25.45	74	39.93	32.35	9.29	33.02	100	117	P	H
		5448.16	39.84	-14.16	54	31.22	32.35	9.29	33.02	100	117	A	H
	*	5580	100.24	-	-	91.26	32.57	9.48	33.07	100	117	P	H
	*	5580	90.63	-	-	81.65	32.57	9.48	33.07	100	117	A	H
802.11n		5762.375	49.31	-24.69	74	39.5	33.02	9.95	33.16	100	117	P	H
HT20		5759.75	41.35	-12.65	54	31.54	33.02	9.95	33.16	100	117	A	H
CH 116		5393.2	48.79	-25.21	74	40.31	32.28	9.22	33.02	102	301	P	V
5580MHz		5450.32	39.98	-14.02	54	31.36	32.35	9.29	33.02	102	301	A	V
	*	5580	105.32	-	-	96.34	32.57	9.48	33.07	102	301	P	V
	*	5580	95.48	-	-	86.5	32.57	9.48	33.07	102	301	A	V
		5752.225	49.53	-24.47	74	39.78	33.02	9.88	33.15	102	301	P	V
		5758.35	41.46	-12.54	54	31.65	33.02	9.95	33.16	102	301	A	V

	*	5700	100.07	-	-	90.58	32.86	9.75	33.12	102	116	P	H
	*	5700	91.97	-	-	82.48	32.86	9.75	33.12	102	116	A	H
		5751.48	50.15	-23.85	74	40.44	32.98	9.88	33.15	102	116	P	H
		5751.8	43.67	-10.33	54	33.92	33.02	9.88	33.15	102	116	A	H
802.11n													H
HT20													H
CH 140	*	5700	105.96	-	-	96.47	32.86	9.75	33.12	100	302	P	V
5700MHz	*	5700	96.88	-	-	87.39	32.86	9.75	33.12	100	302	A	V
		5751.56	52.77	-21.23	74	43.02	33.02	9.88	33.15	100	302	P	V
		5751.56	46.09	-7.91	54	36.34	33.02	9.88	33.15	100	302	A	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)
		11000	53.99	-20.01	74	63.11	39.5	15.08	64	100	302	P	H
		11000	50.98	-3.02	54	60.1	39.5	15.08	64	100	302	A	H
802.11n		16500	43.82	-30.18	74	49.58	37.9	18.74	62.7	100	0	P	H
HT20													H
CH 100		11000	47.22	-26.78	74	56.34	39.5	15.08	64	100	0	P	V
5500MHz		16500	43.98	-30.02	74	49.74	37.9	18.74	62.7	100	0	P	V
													V
													V
		11160	54.47	-19.53	74	62.98	39.67	15.2	63.67	100	302	P	H
		11160	50.79	-3.21	54	59.3	39.67	15.2	63.67	100	302	A	H
802.11n		16740	46.3	-27.7	74	50.35	39.4	18.93	62.7	100	0	P	H
HT20													H
CH 116		11160	48.13	-25.87	74	56.64	39.67	15.2	63.67	100	0	P	V
5580MHz		16740	46.39	-27.61	74	50.44	39.4	18.93	62.7	100	0	P	V
													V
													V
		11400	52.15	-21.85	74	59.79	39.9	15.38	63.2	100	297	P	H
		11400	48.04	-5.96	54	55.68	39.9	15.38	63.2	100	297	A	H
802.11n		17100	48.57	-25.43	74	49.98	41.06	19.18	62	100	0	P	H
HT20													H
CH 140		11400	47.88	-26.12	74	55.52	39.9	15.38	63.2	100	0	P	V
5700MHz		17100	48.55	-25.45	74	49.96	41.06	19.18	62	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)
		5358.88	49.59	-24.41	74	41.18	32.25	9.19	33.03	100	118	P	H
		5469.28	41.67	-12.33	54	33.03	32.37	9.29	33.02	100	118	A	H
	*	5510	97.42	-	-	88.68	32.4	9.37	33.03	100	118	P	H
	*	5510	89.86	-	-	81.12	32.4	9.37	33.03	100	118	A	H
802.11n		5744.525	49.97	-24.03	74	40.26	32.98	9.88	33.15	100	118	P	H
HT40		5745.155	42.23	-11.77	54	32.52	32.98	9.88	33.15	100	118	A	H
CH 102		5464.72	50.2	-23.8	74	41.56	32.37	9.29	33.02	100	296	P	V
5510MHz		5469.04	43.5	-10.5	54	34.86	32.37	9.29	33.02	100	296	A	V
	*	5510	101.98	-	-	93.24	32.4	9.37	33.03	100	296	P	V
	*	5510	93.89	-	-	85.15	32.4	9.37	33.03	100	296	A	V
		5726.255	50.41	-23.59	74	40.79	32.94	9.81	33.13	100	296	P	V
		5752.085	42.15	-11.85	54	32.4	33.02	9.88	33.15	100	296	A	V
		5430.4	48.4	-25.6	74	39.83	32.33	9.26	33.02	100	116	P	H
		5447.2	41.31	-12.69	54	32.69	32.35	9.29	33.02	100	116	A	H
	*	5550	97.64	-	-	88.73	32.52	9.44	33.05	100	116	P	H
	*	5550	89.6	-	-	80.69	32.52	9.44	33.05	100	116	A	H
802.11n		5759.645	49.49	-24.51	74	39.68	33.02	9.95	33.16	100	116	P	H
HT40		5748.305	42.24	-11.76	54	32.53	32.98	9.88	33.15	100	116	A	H
CH 110		5432.56	49.25	-24.75	74	40.68	32.33	9.26	33.02	100	300	P	V
5550MHz		5447.2	41.98	-12.02	54	33.36	32.35	9.29	33.02	100	300	A	V
	*	5550	101.81	-	-	92.9	32.52	9.44	33.05	100	300	P	V
	*	5550	93.59	-	-	84.68	32.52	9.44	33.05	100	300	A	V
		5727.515	49.08	-24.92	74	39.46	32.94	9.81	33.13	100	300	P	V
		5756.18	42.17	-11.83	54	32.43	33.02	9.88	33.16	100	300	A	V

		5356.3	48.35	-25.65	74	39.94	32.25	9.19	33.03	100	116	P	H
		5464.45	40.78	-13.22	54	32.14	32.37	9.29	33.02	100	116	A	H
	*	5670	98.26	-	-	88.88	32.81	9.68	33.11	100	116	P	H
	*	5670	90.8	-	-	81.42	32.81	9.68	33.11	100	116	A	H
802.11n		5737.175	49.4	-24.6	74	39.69	32.98	9.88	33.15	100	116	P	H
HT40		5730.175	42.13	-11.87	54	32.51	32.94	9.81	33.13	100	116	A	H
CH 134		5462.35	48.05	-25.95	74	39.43	32.35	9.29	33.02	100	299	P	V
5670MHz		5457.45	40.67	-13.33	54	32.05	32.35	9.29	33.02	100	299	A	V
	*	5670	102.7	-	-	93.32	32.81	9.68	33.11	100	299	P	V
	*	5670	94.87	-	-	85.49	32.81	9.68	33.11	100	299	A	V
		5740.15	50.42	-23.58	74	40.71	32.98	9.88	33.15	100	299	P	V
		5758.175	42.35	-11.65	54	32.54	33.02	9.95	33.16	100	299	A	V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n 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)
		11020	54.3	-19.7	74	63.35	39.52	15.11	63.97	100	319	P	H
		11020	51.26	-2.74	54	60.31	39.52	15.11	63.97	100	319	A	H
802.11n		16530	44.93	-29.07	74	50.46	38.11	18.76	62.7	100	0	P	H
HT40													H
CH 102		11020	47.67	-26.33	74	56.72	39.52	15.11	63.97	100	0	P	V
5510MHz		16530	43.86	-30.14	74	49.39	38.11	18.76	62.7	100	0	P	V
													V
													V
		11100	54.93	-19.07	74	63.68	39.6	15.16	63.8	100	302	P	H
		11100	51.61	-2.39	54	60.36	39.6	15.16	63.8	100	302	A	H
802.11n		16650	44.86	-29.14	74	49.53	38.86	18.86	62.7	100	0	P	H
HT40													H
CH 110		11100	47.88	-26.12	74	56.63	39.6	15.16	63.8	100	0	P	V
5550MHz		16650	44.6	-29.4	74	49.27	38.86	18.86	62.7	100	0	P	V
													V
													V
		11340	53.13	-20.87	74	61.01	39.83	15.33	63.33	100	306	P	H
		11340	49.24	-4.76	54	57.12	39.83	15.33	63.33	100	306	A	H
802.11n		17010	48.11	-25.89	74	50.2	41.01	19.14	62.58	100	0	P	H
HT40													H
CH 134		11340	47.81	-26.19	74	55.69	39.83	15.33	63.33	100	0	P	V
5670MHz		17010	47.84	-26.16	74	49.93	41.01	19.14	62.58	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

Band 3 - Straddle Channel

WIFI 802.11a (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)
802.11a CH 144 5720MHz	*	5720	102.83	-	-	93.06	33.09	9.81	33.13	100	117	P	H
	*	5720	95.41	-	-	85.64	33.09	9.81	33.13	100	117	A	H
													H
													H
													H
													H
	*	5720	107.59	-	-	97.82	33.09	9.81	33.13	100	298	P	V
	*	5720	99.22	-	-	89.45	33.09	9.81	33.13	100	298	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	51.55	-22.45	74	59.07	39.93	15.4	63.13	100	281	P	H
		11440	48.34	-5.66	54	55.86	39.93	15.4	63.13	100	281	A	H
		17160	48.41	-25.59	74	49.28	41.1	19.21	61.53	100	0	P	H
													H
		11440	47.71	-26.29	74	55.23	39.93	15.4	63.13	100	0	P	V
		17160	49.45	-24.55	74	50.32	41.1	19.21	61.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5720	102.4	-	-	92.63	33.09	9.81	33.13	100	117	P	H
	*	5720	94.34	-	-	84.57	33.09	9.81	33.13	100	117	A	H
													H
													H
802.11n													H
HT20													H
CH 144	*	5720	106.13	-	-	96.36	33.09	9.81	33.13	100	298	P	V
5720MHz	*	5720	98.15	-	-	88.38	33.09	9.81	33.13	100	298	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	51.95	-22.05	74	59.47	39.93	15.4	63.13	102	312	P	H
		11440	47.99	-6.01	54	55.51	39.93	15.4	63.13	102	312	A	H
802.11n		17160	49.59	-24.41	74	50.46	41.1	19.21	61.53	100	0	P	H
HT20													H
CH 144		11440	47.43	-26.57	74	54.95	39.93	15.4	63.13	100	0	P	V
5720MHz		17160	49.12	-24.88	74	49.99	41.1	19.21	61.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5710	98.84	-	-	89.08	33.08	9.81	33.13	100	117	P	H
	*	5710	91.06	-	-	81.3	33.08	9.81	33.13	100	117	A	H
													H
													H
802.11n													H
HT40													H
CH 142	*	5710	102.35	-	-	92.59	33.08	9.81	33.13	100	298	P	V
5710MHz	*	5710	94.81	-	-	85.05	33.08	9.81	33.13	100	298	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n 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)
		11420	51.12	-22.88	74	58.7	39.92	15.39	63.17	100	310	P	H
		11420	48.13	-5.87	54	55.71	39.92	15.39	63.17	100	310	A	H
802.11n		17130	49.17	-24.83	74	50.31	41.08	19.2	61.77	100	0	P	H
HT40													H
CH 142		11420	47.01	-26.99	74	54.59	39.92	15.39	63.17	100	0	P	V
5710MHz		17130	49.84	-24.16	74	50.98	41.08	19.2	61.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 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 LF		30.27	21.88	-18.12	40	29.17	24.36	0.82	32.5	-	-	P	H
		233.85	26.67	-19.33	46	40.44	16.59	1.95	32.38	-	-	P	H
		292.98	27.85	-18.15	46	38.86	19.04	2.22	32.37	-	-	P	H
		314.7	29.23	-16.77	46	39.79	19.41	2.31	32.36	-	-	P	H
		559.7	26.87	-19.13	46	29.95	26.28	2.98	32.43	-	-	P	H
		958.7	33.32	-12.68	46	29.22	31.14	3.9	31.12	100	0	P	H
													H
													H
													H
													H
													H
													H
		46.47	33.8	-6.2	40	49.47	15.8	1.02	32.49	100	181	P	V
		64.29	30.15	-9.85	40	49.8	11.81	1.02	32.49	-	-	P	V
		81.84	20.79	-19.21	40	38.62	13.42	1.22	32.48	-	-	P	V
		318.2	23.74	-22.26	46	34.26	19.45	2.31	32.36	-	-	P	V
		640.9	27.6	-18.4	46	30.2	26.56	3.2	32.46	-	-	P	V
		946.1	34.05	-11.95	46	30.69	30.61	3.82	31.24	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. 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

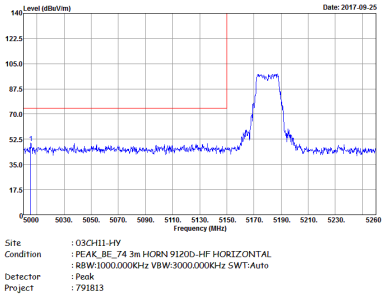
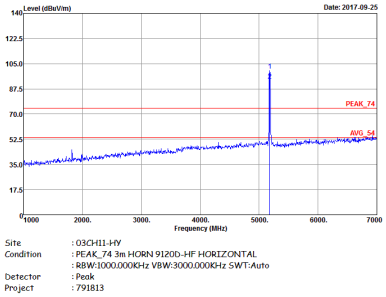
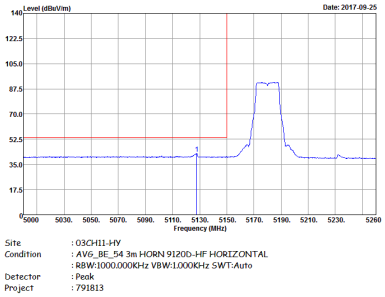
Test Engineer :	J.C. Liang / Jacky Hung / Ken Wu	**Temperature :**	24~26℃
		Relative Humidity :	50~55%

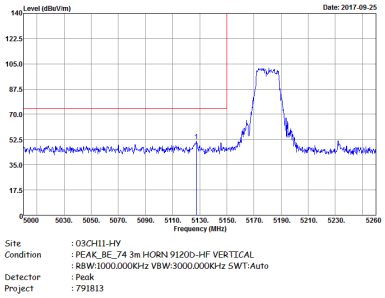
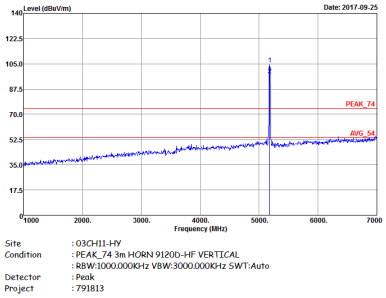
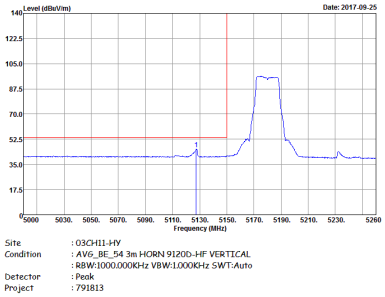
Note symbol

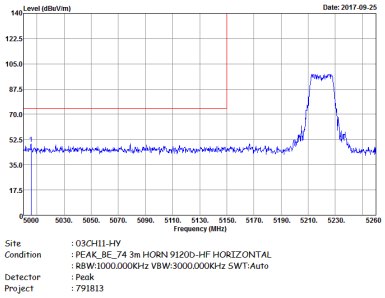
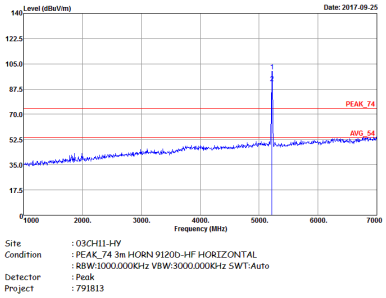
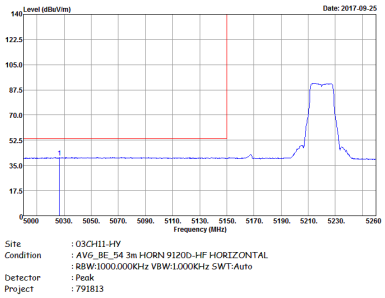
-L	**Low channel location**
-R	**High channel location**

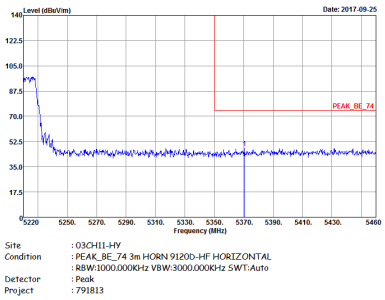
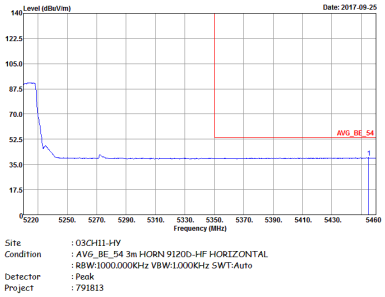
Band 1 - 5150~5250MHz

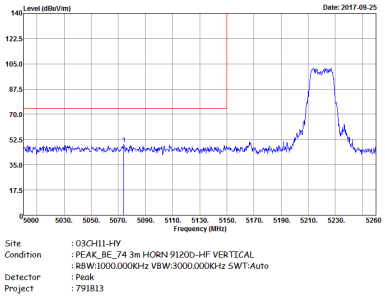
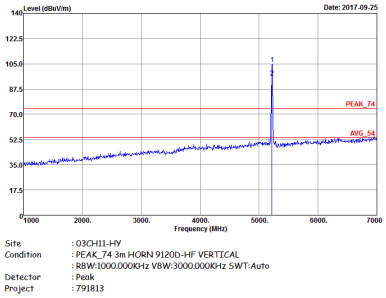
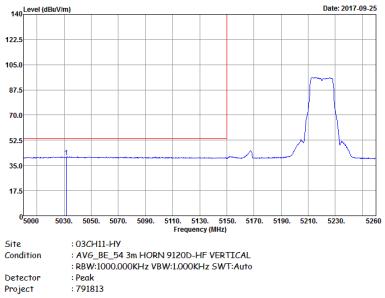
WIFI 802.11a (Band Edge @ 3m)

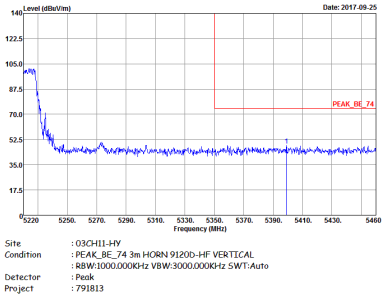
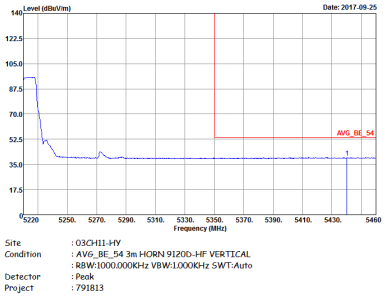
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

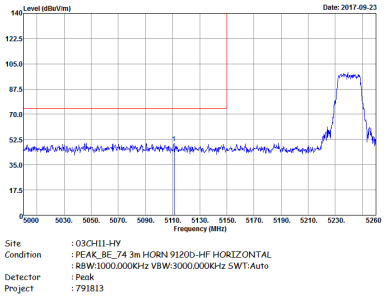
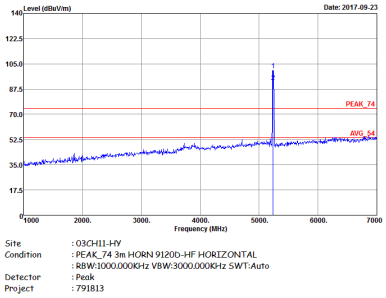
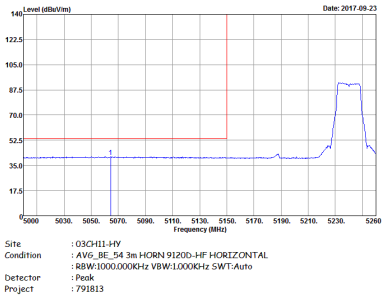
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

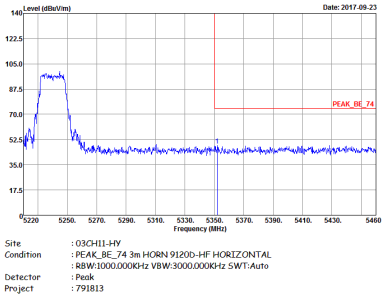
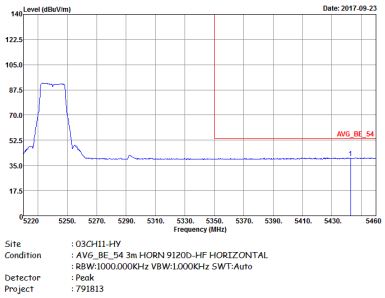
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

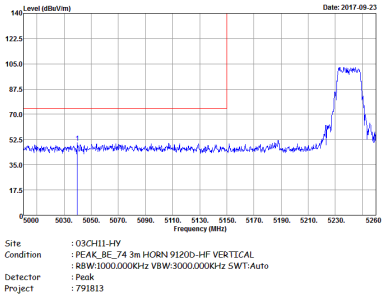
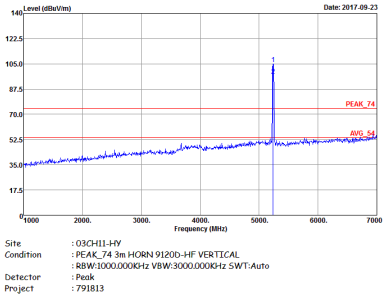
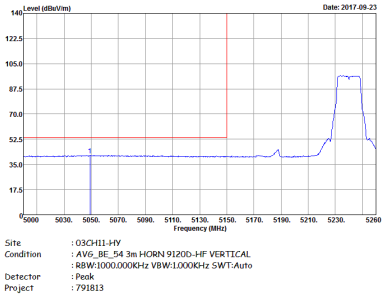
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

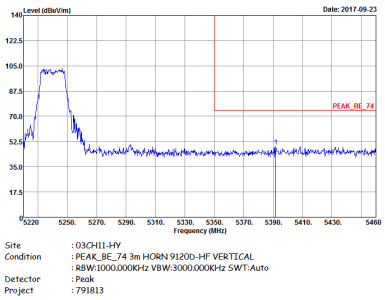
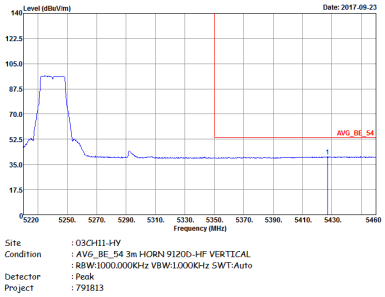
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

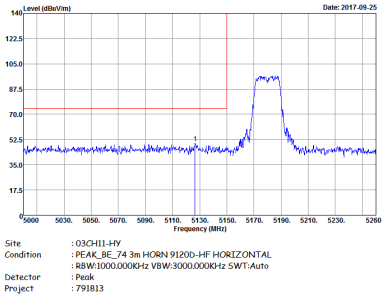
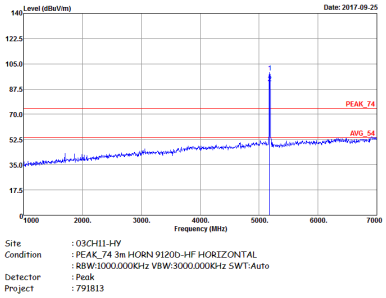
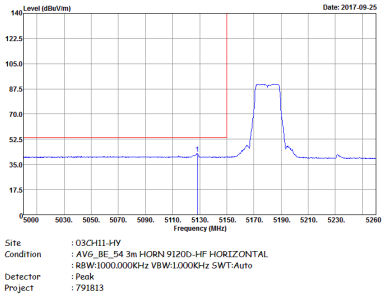
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

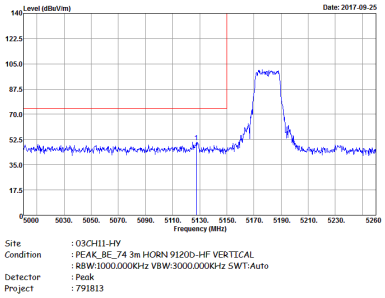
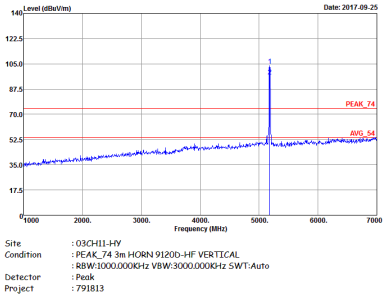
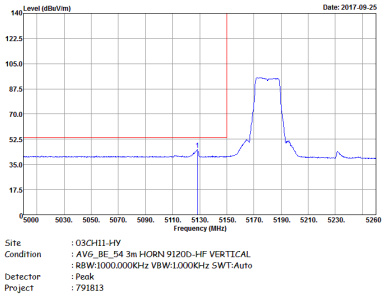
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

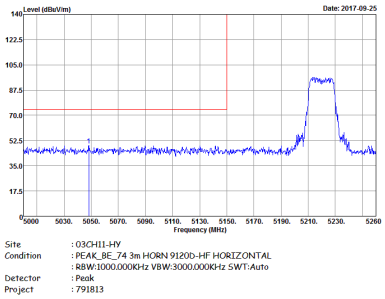
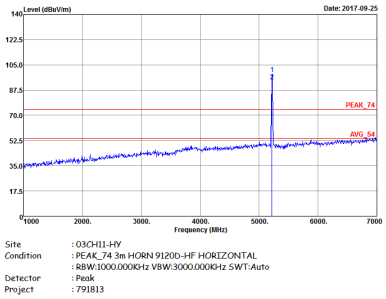
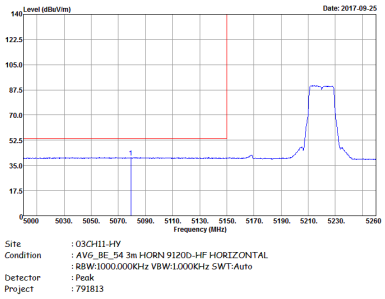
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

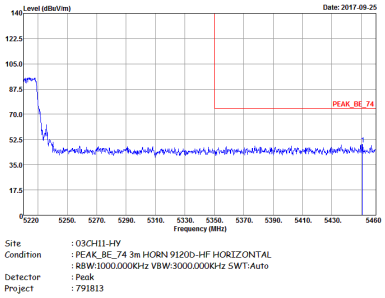
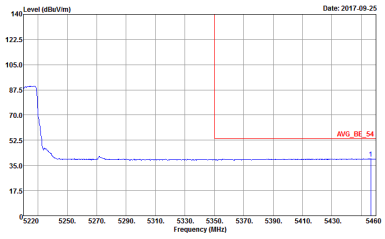
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

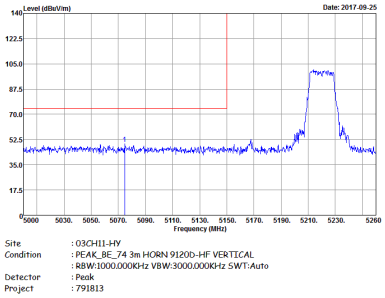
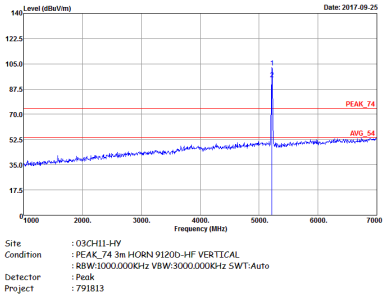
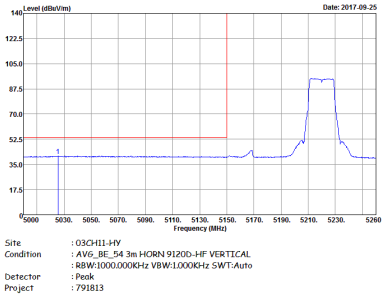
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

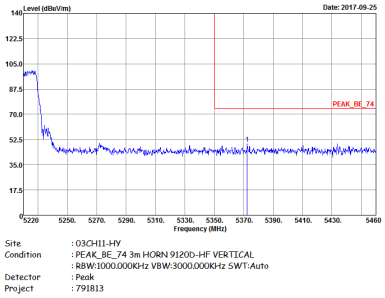
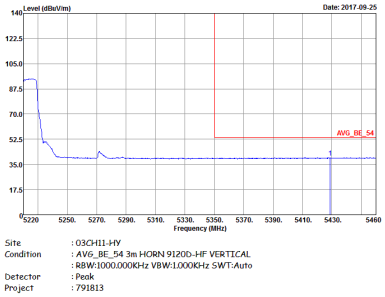
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

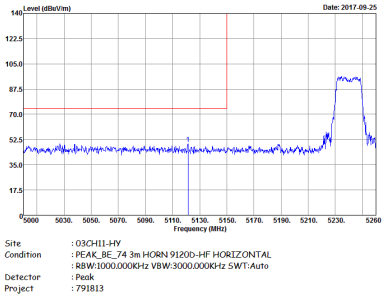
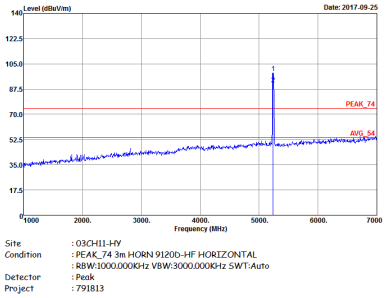
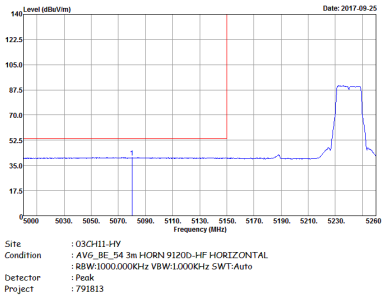
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

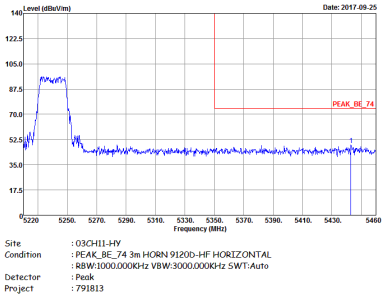
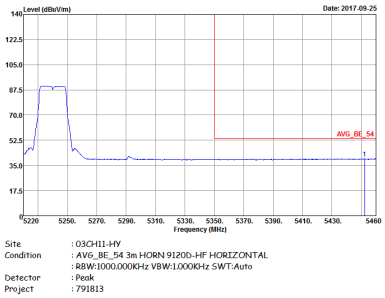
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

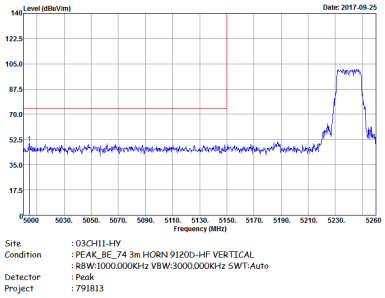
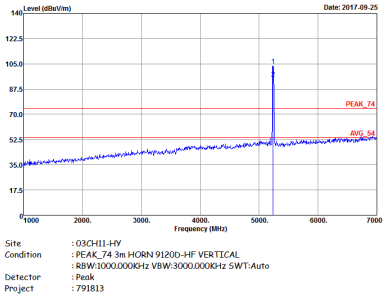
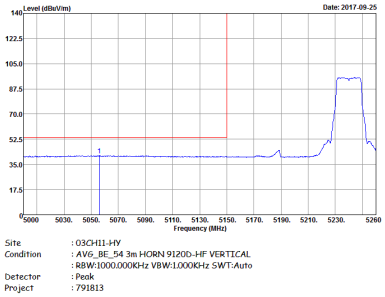
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank

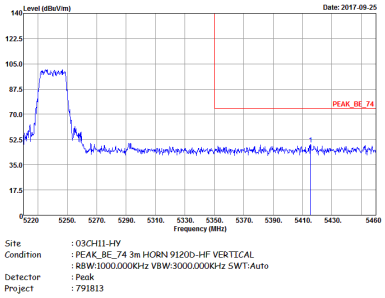
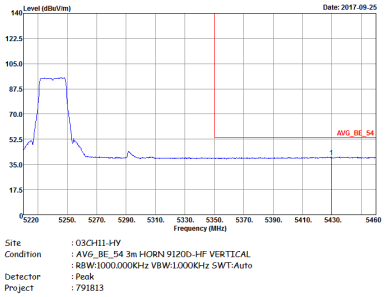
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

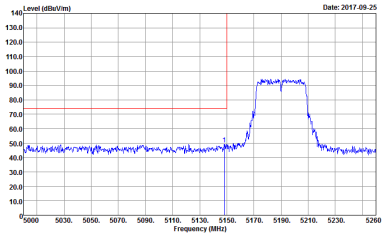
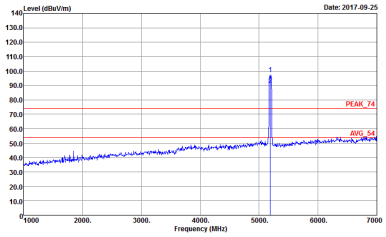
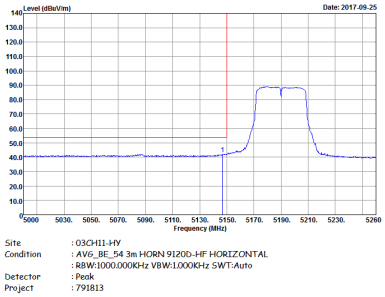
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

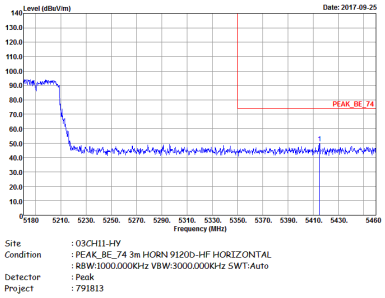
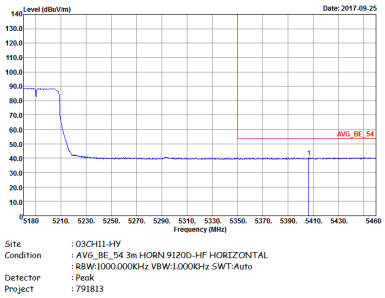
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

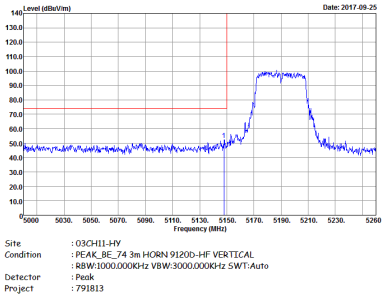
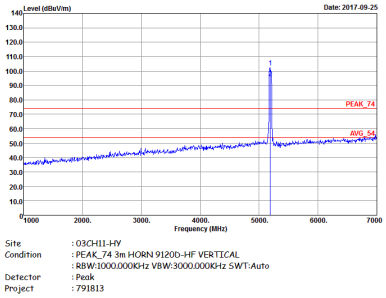
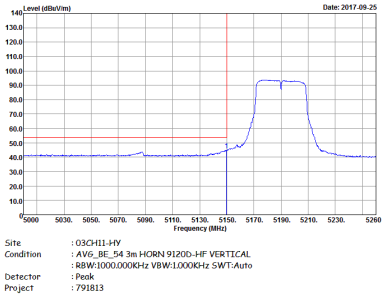
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

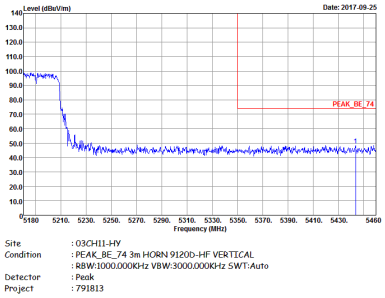
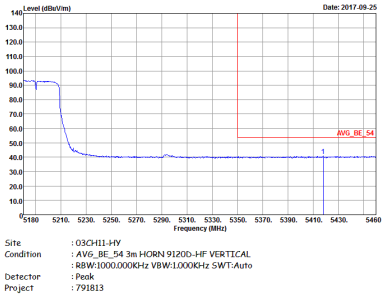
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

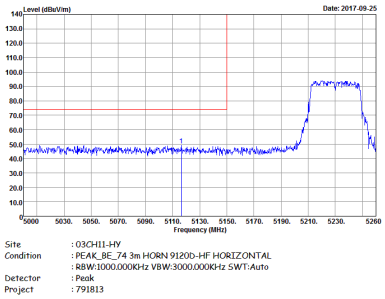
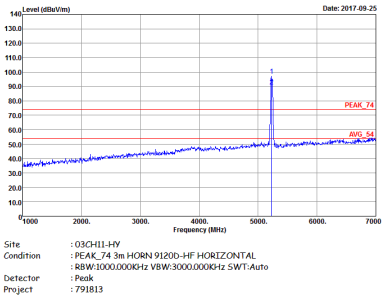
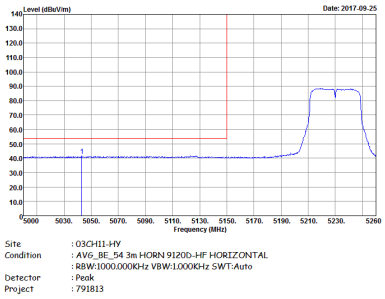
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

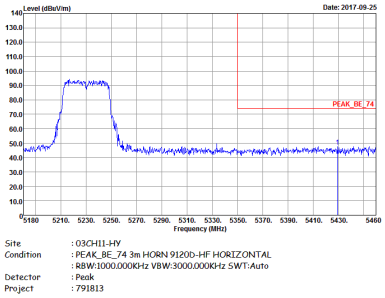
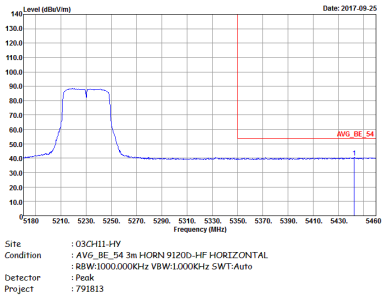
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

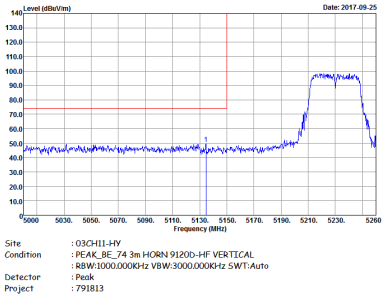
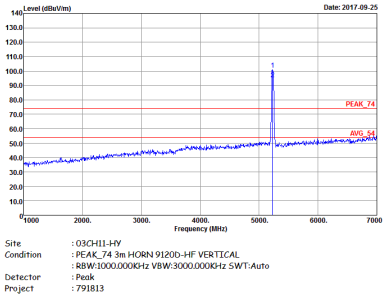
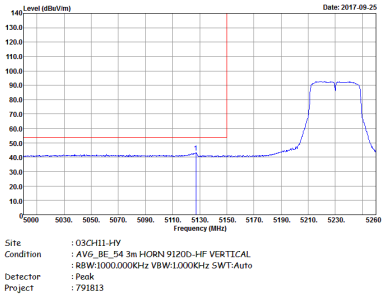
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

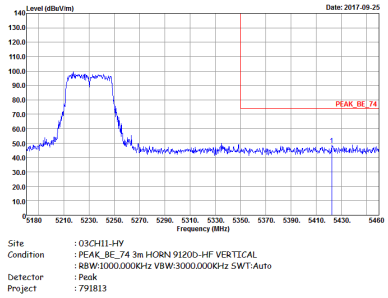
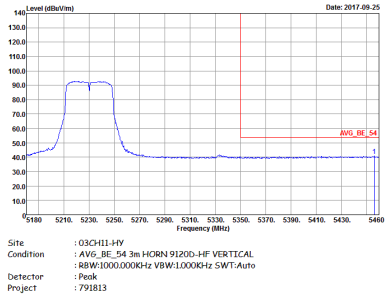
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

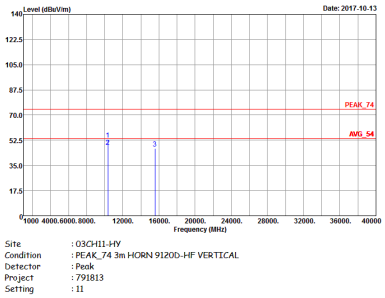
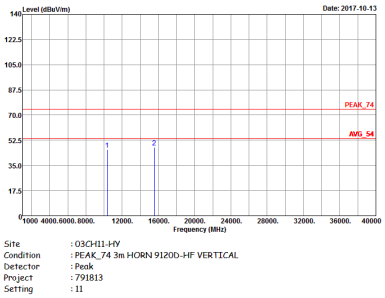
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

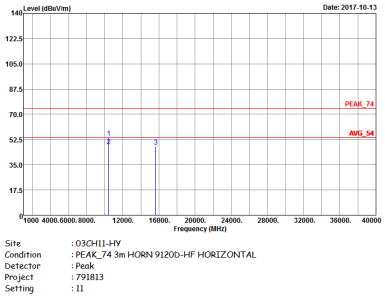
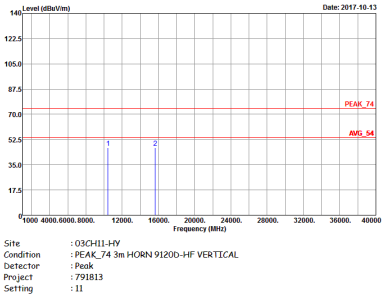
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

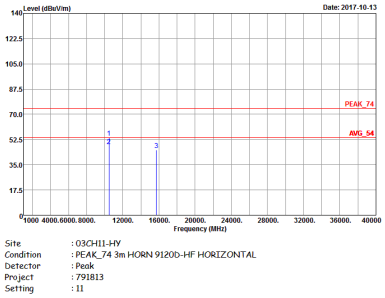
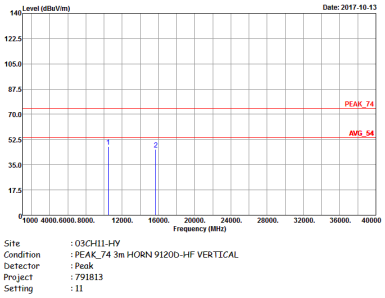
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

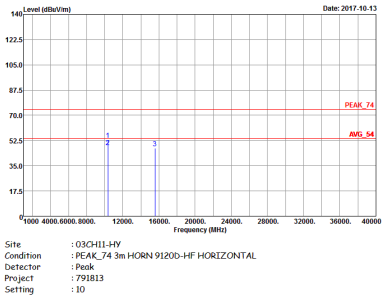
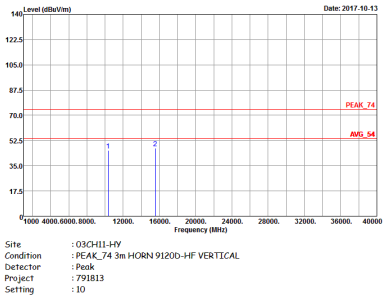
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

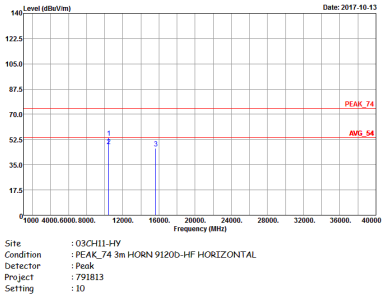
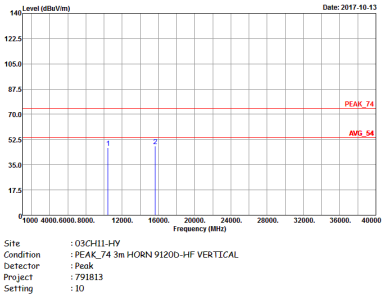
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

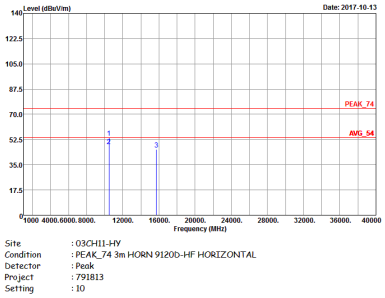
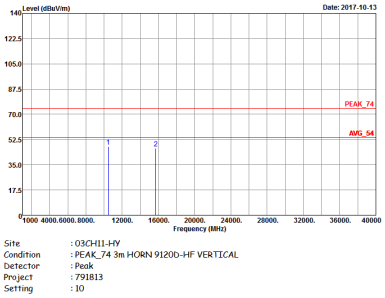
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

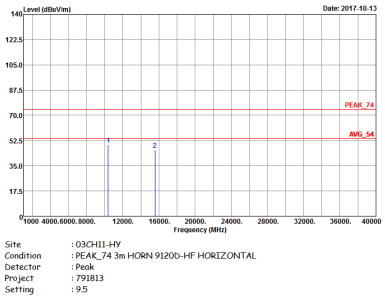
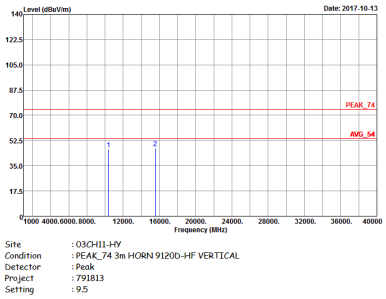
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

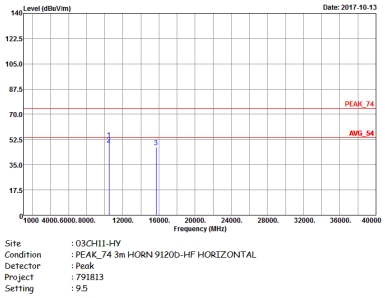
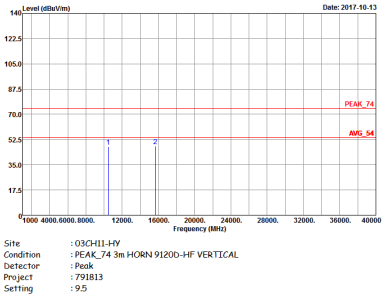
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 1 5150~5250MHz

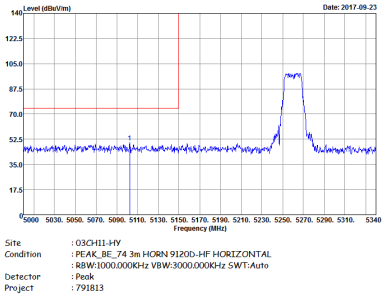
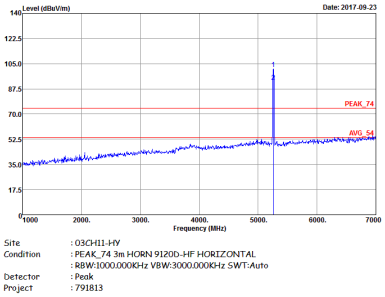
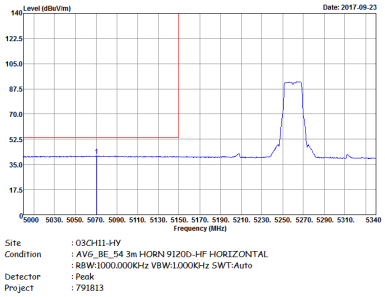
WIFI 802.11n HT40 (Harmonic @ 3m)

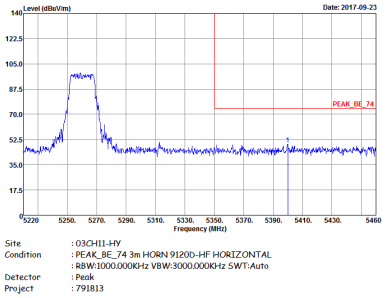
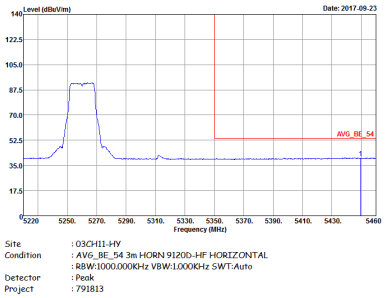
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

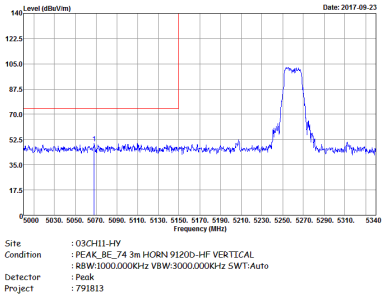
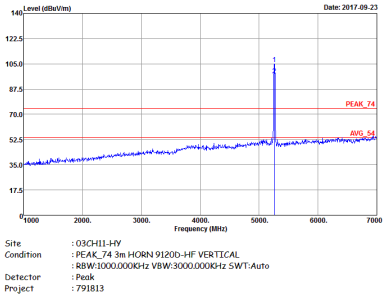
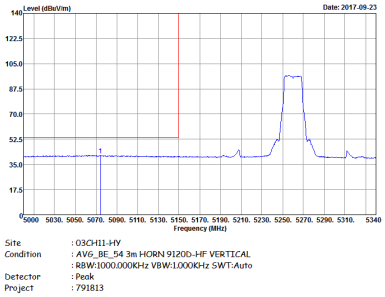
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 791813 Setting : 9.5	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 791813 Setting : 9.5

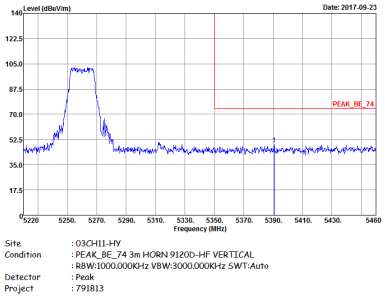
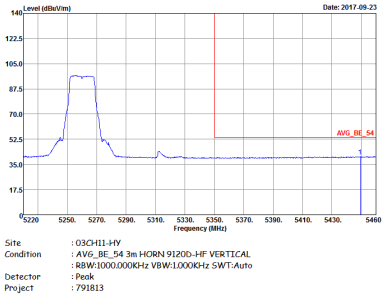
Band 2 - 5250~5350MHz

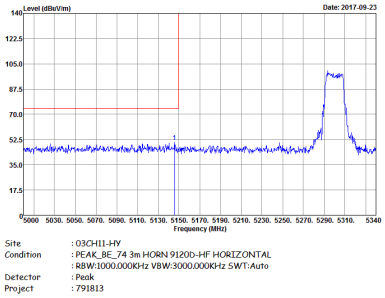
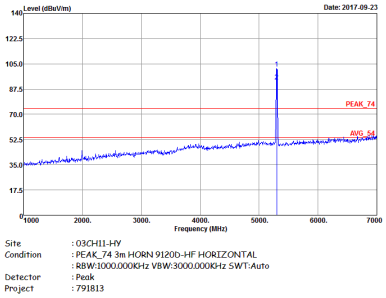
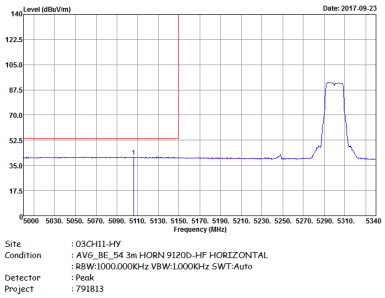
WIFI 802.11a (Band Edge @ 3m)

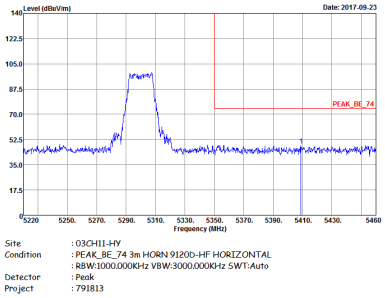
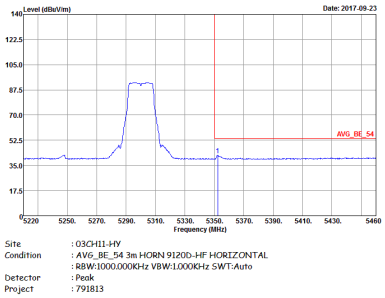
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

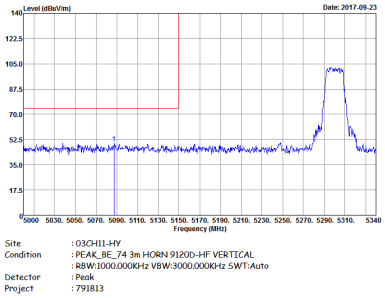
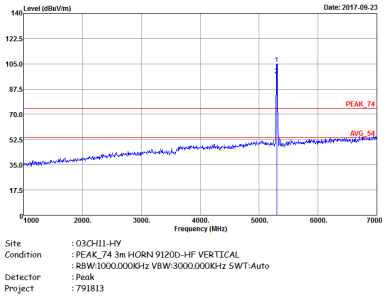
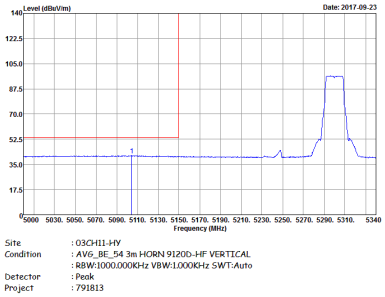
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

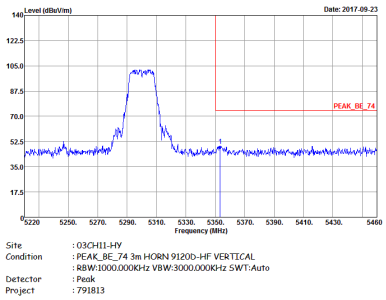
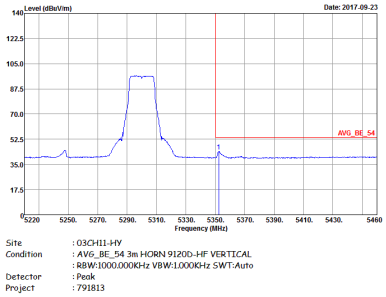
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

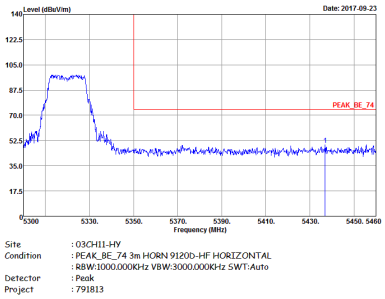
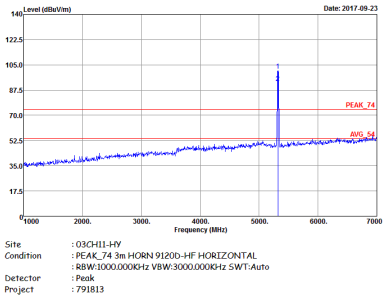
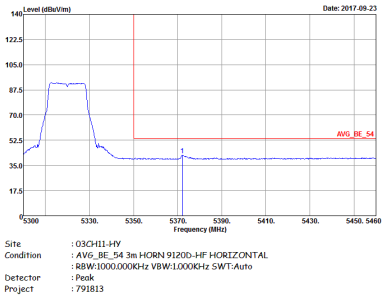
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

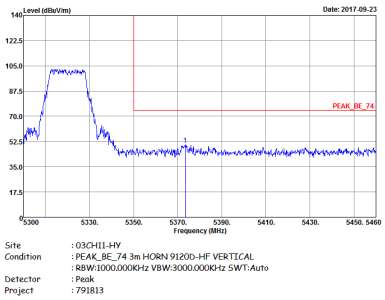
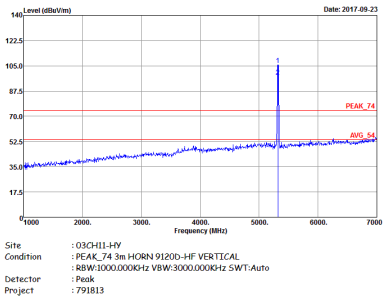
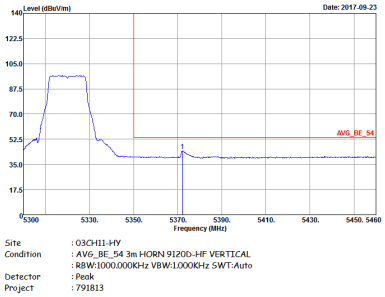
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 791813	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 791813
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank

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

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

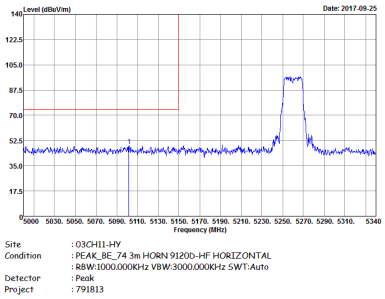
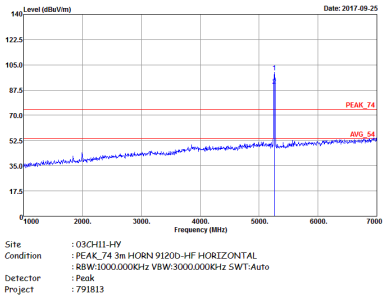
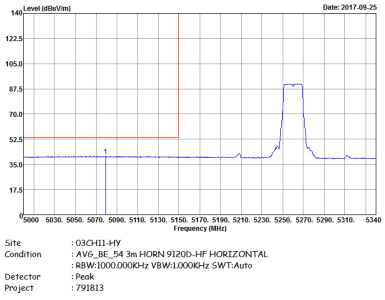
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

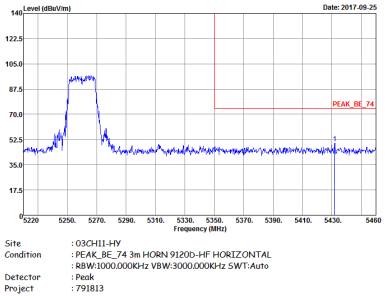
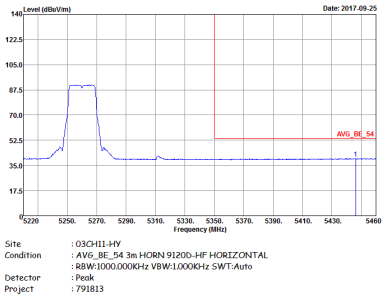
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

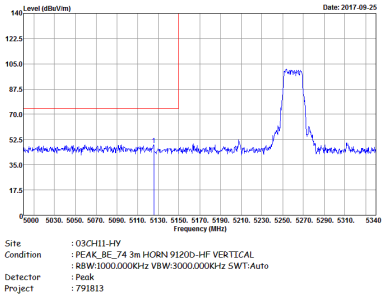
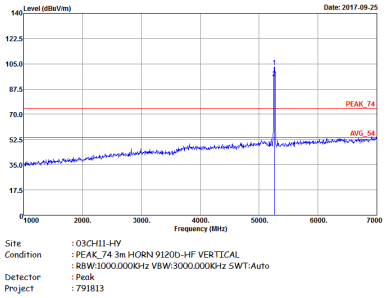
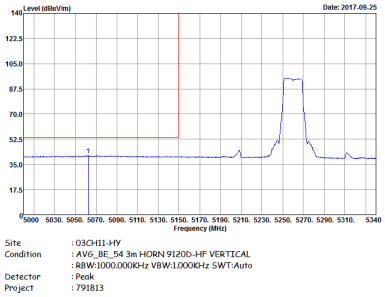
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

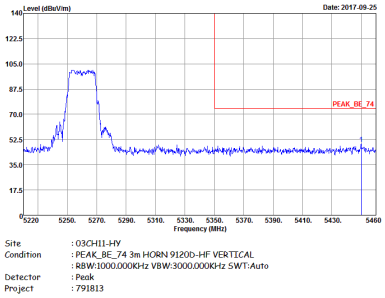
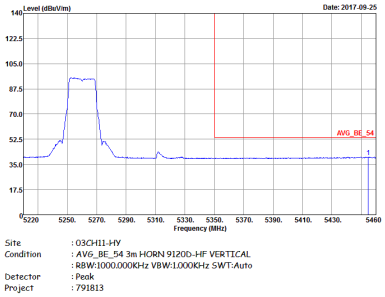
Band 2 5250~5350MHz

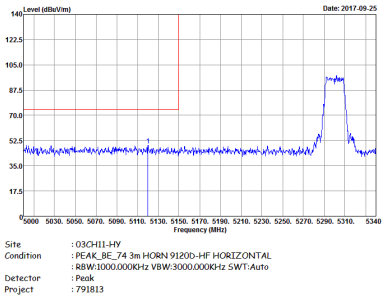
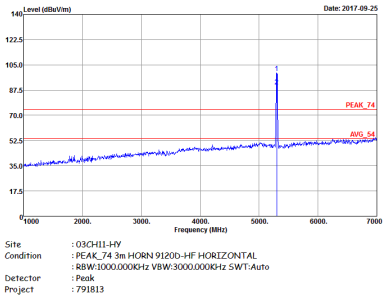
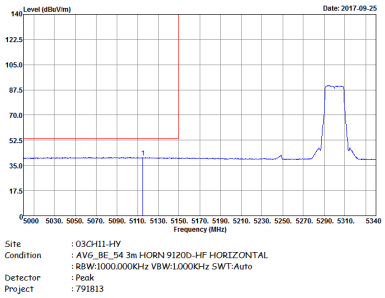
WIFI 802.11n HT20 (Band Edge @ 3m)

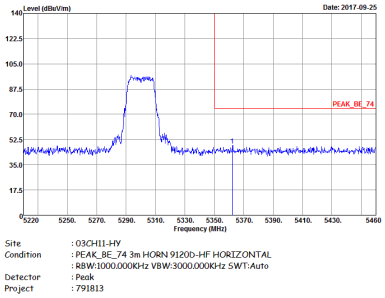
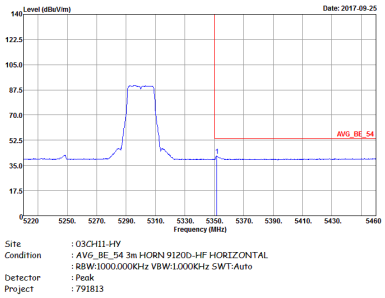
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

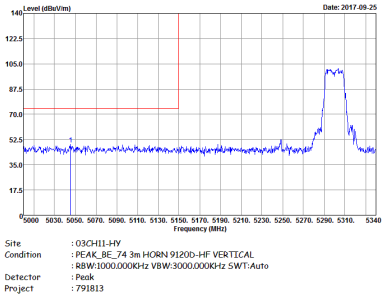
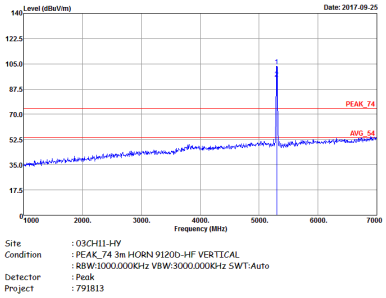
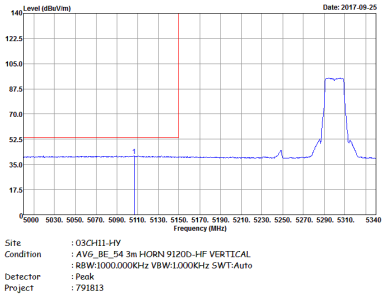
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

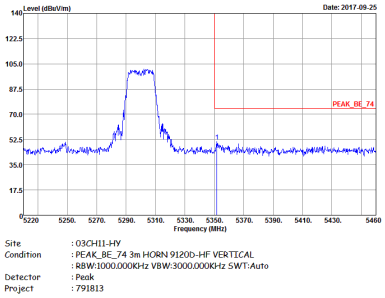
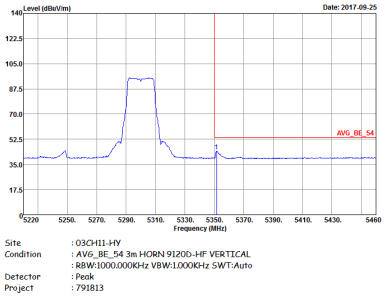
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

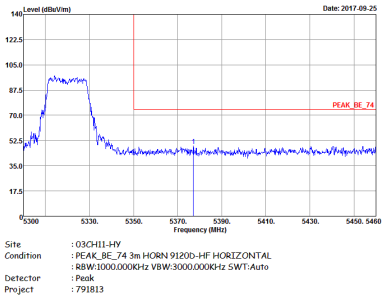
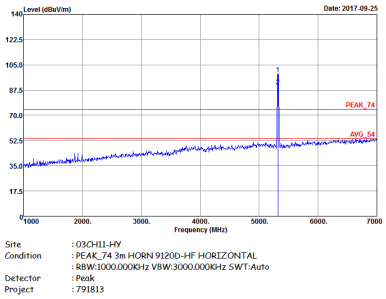
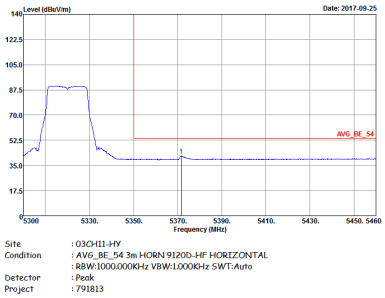
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

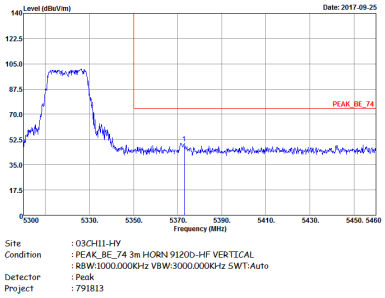
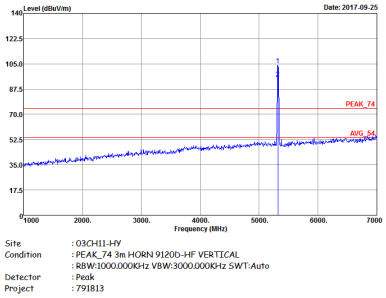
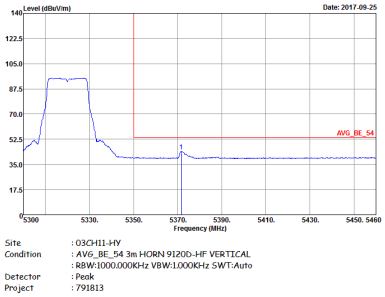
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank

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

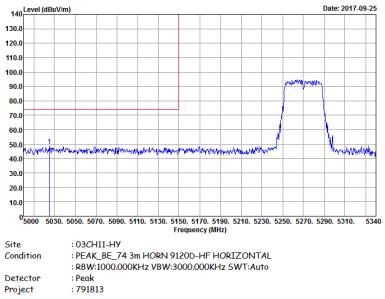
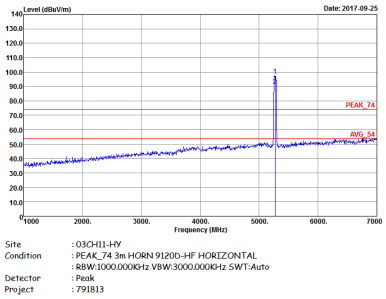
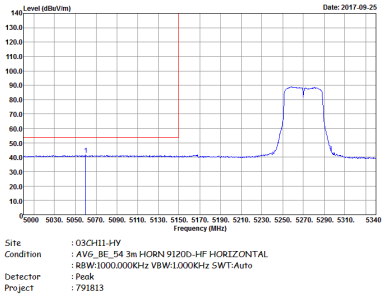
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

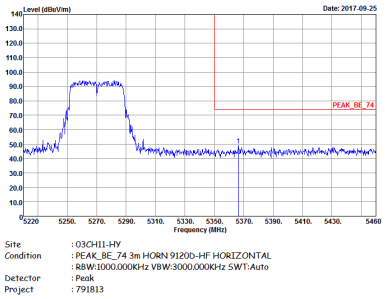
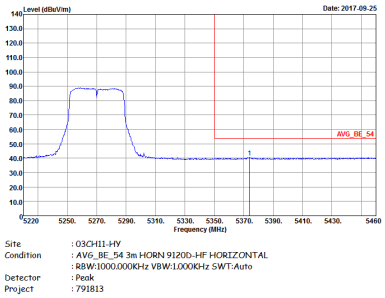
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

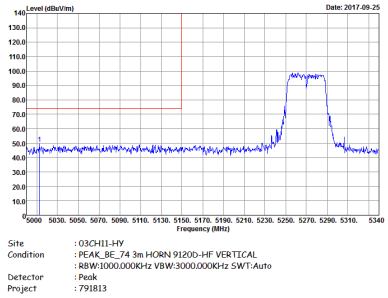
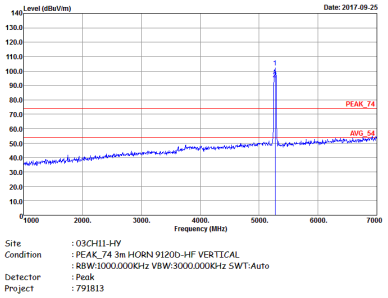
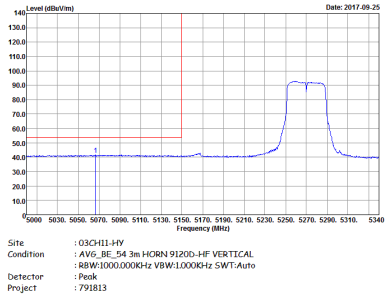
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

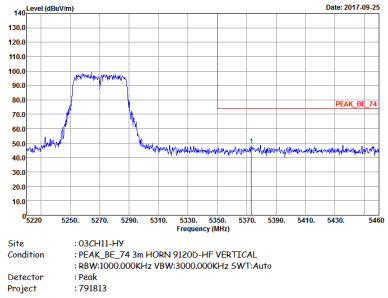
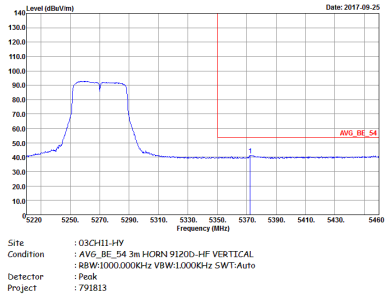
Band 2 5250~5350MHz

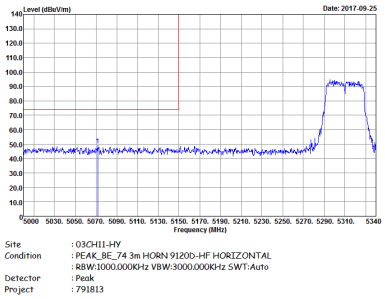
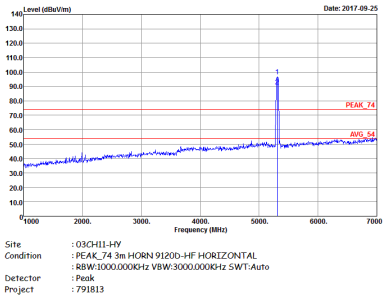
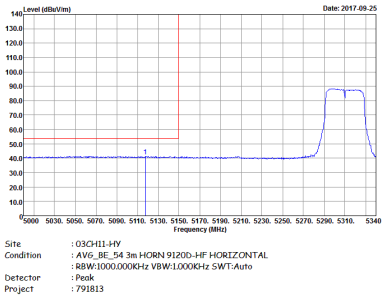
WIFI 802.11n HT40 (Band Edge @ 3m)

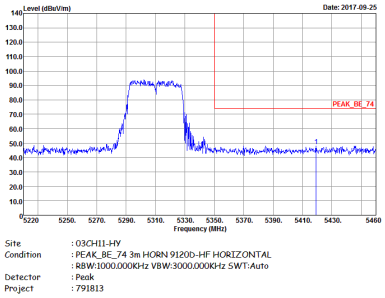
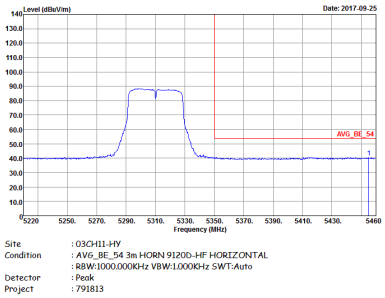
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

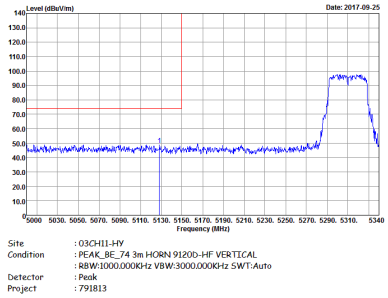
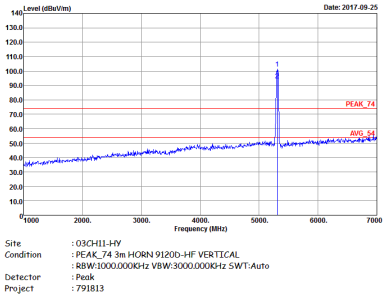
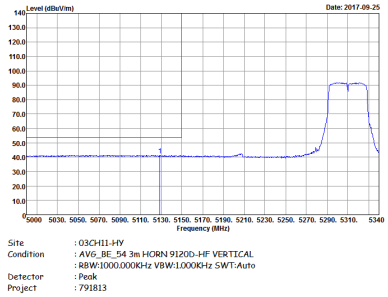
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

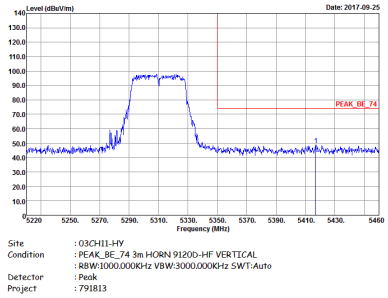
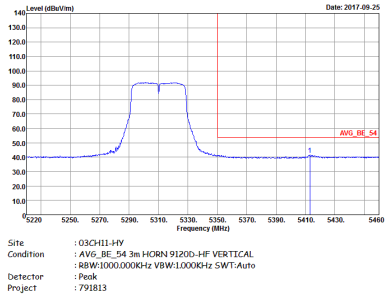
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

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

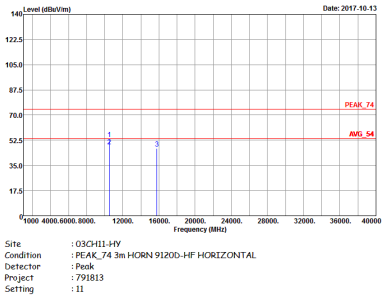
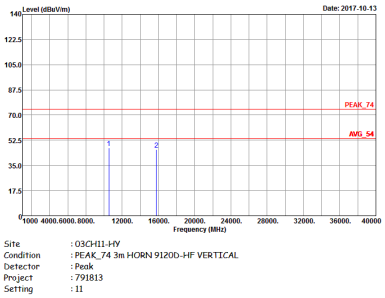
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

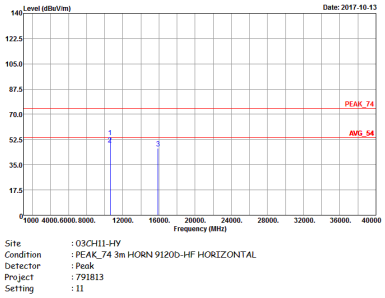
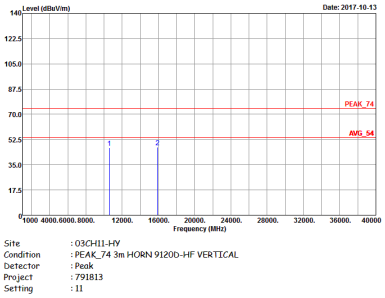
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

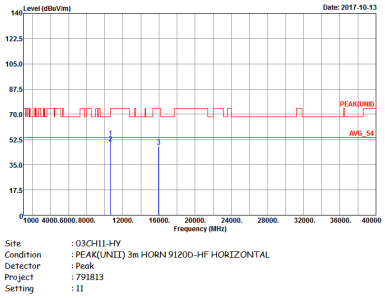
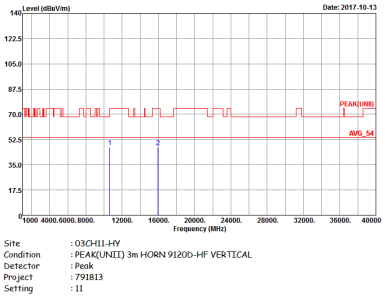
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

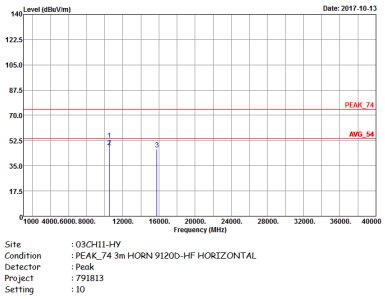
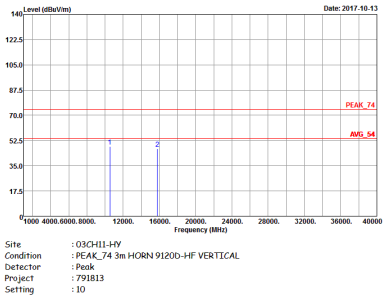
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

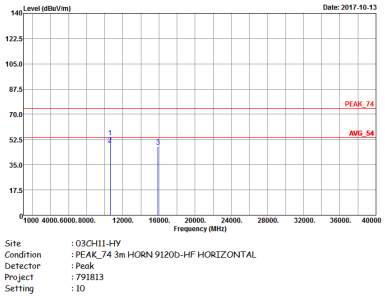
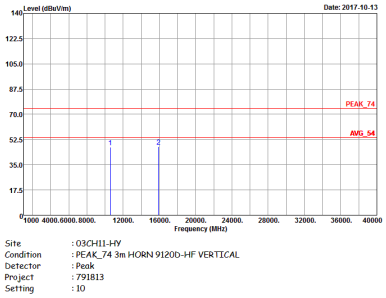
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

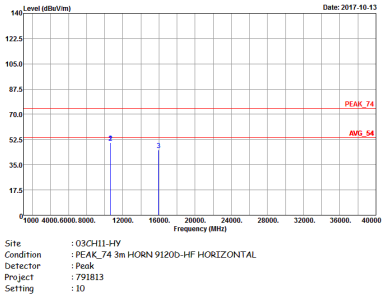
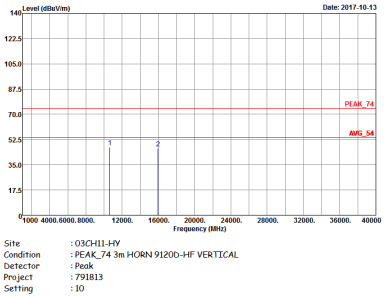
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 791813 Setting : 11	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 791813 Setting : 11

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

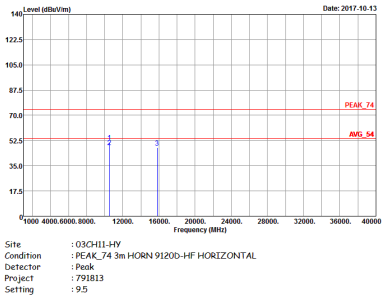
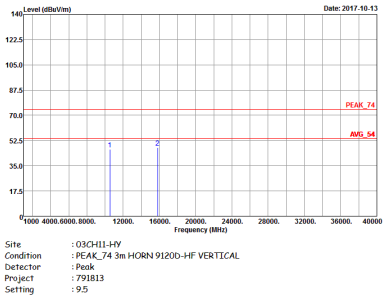
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

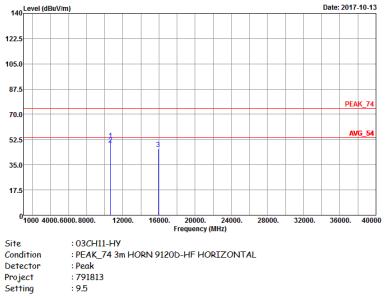
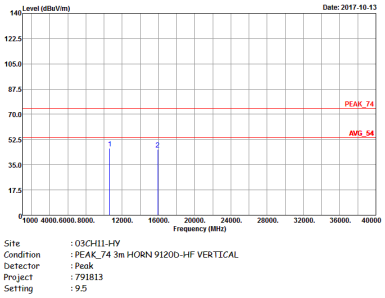
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 2 5250~5350MHz

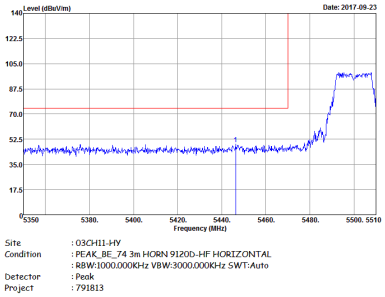
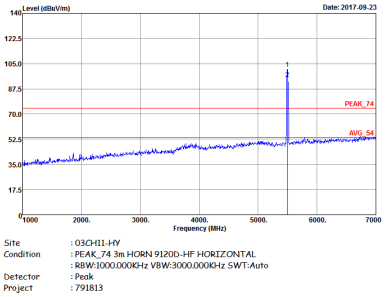
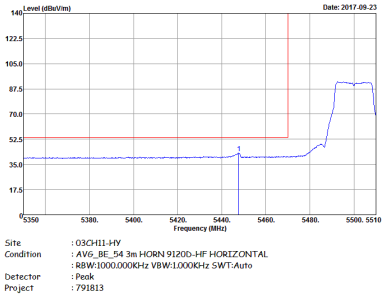
WIFI 802.11n HT40 (Harmonic @ 3m)

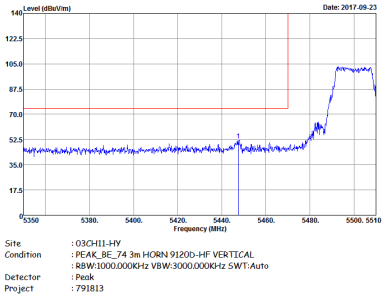
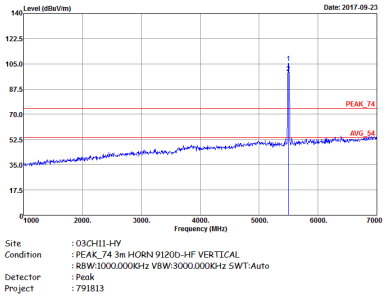
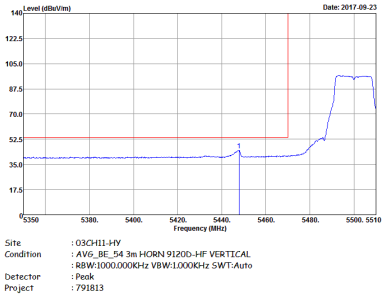
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270 MHz	
1	Horizontal	Vertical
Peak Avg.		

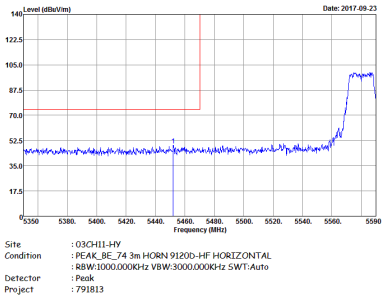
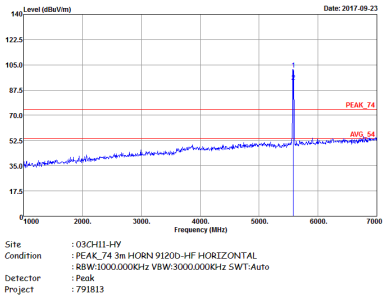
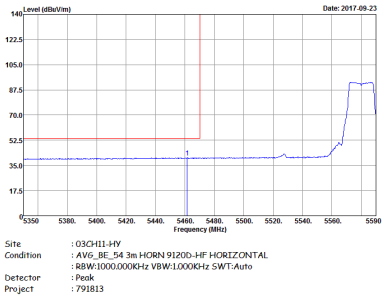
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310 MHz	
1	Horizontal	Vertical
Peak Avg.		

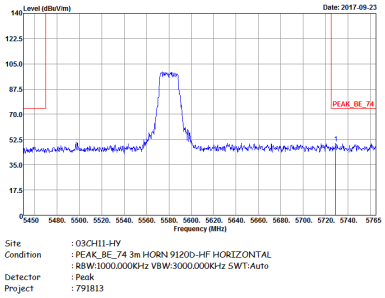
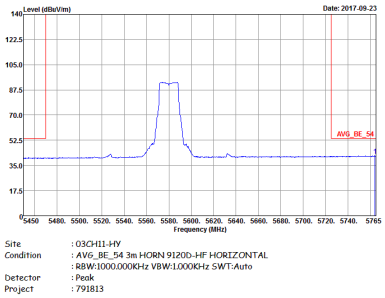
Band 3 - 5470~5725MHz

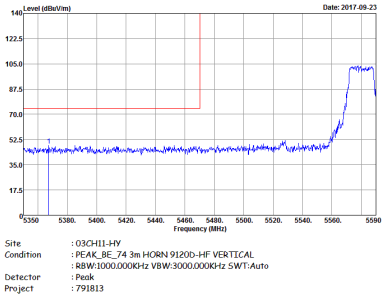
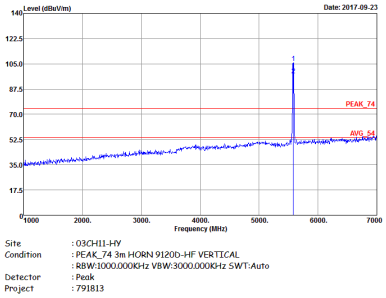
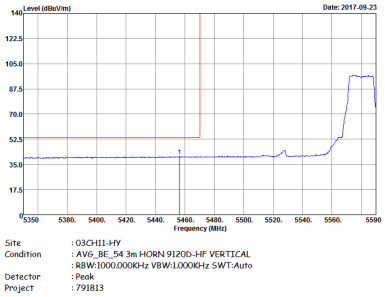
WIFI 802.11a (Band Edge @ 3m)

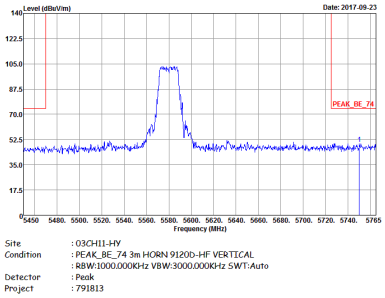
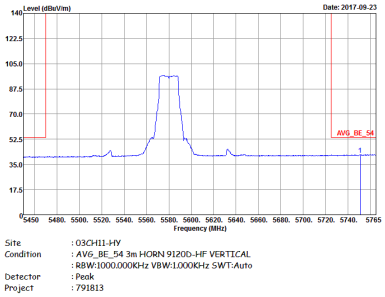
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

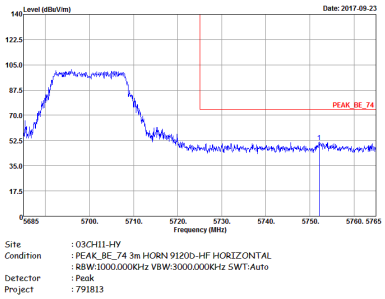
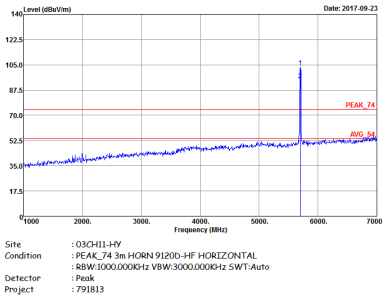
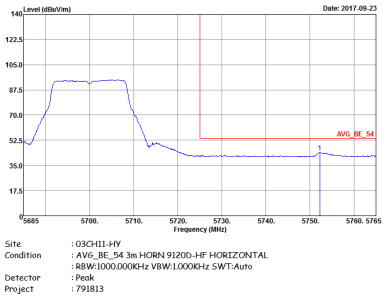
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

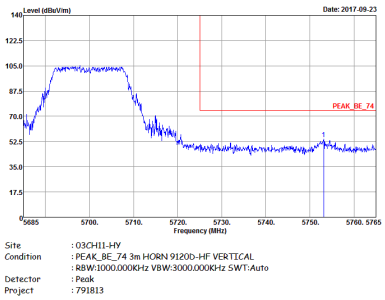
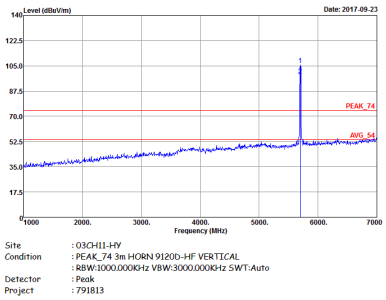
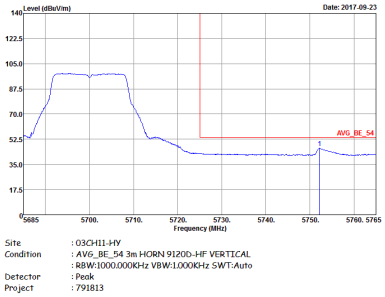
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

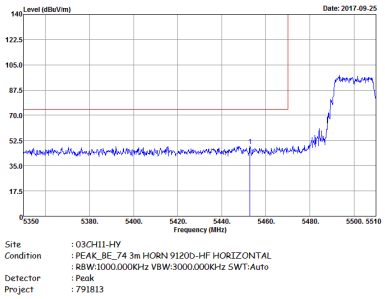
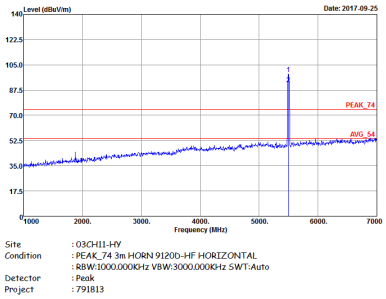
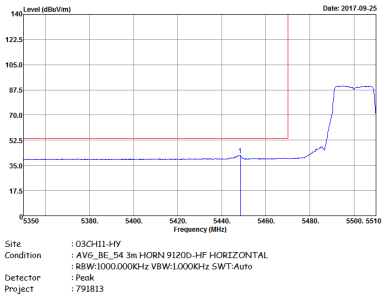
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

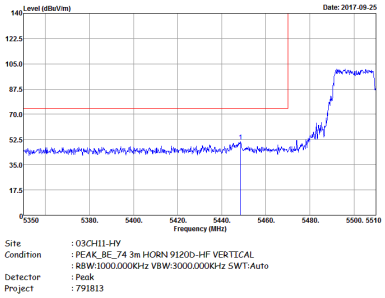
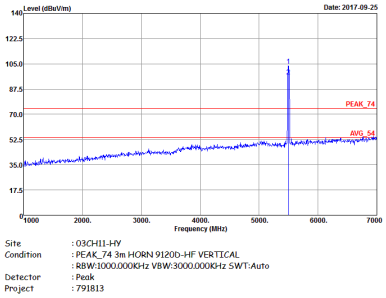
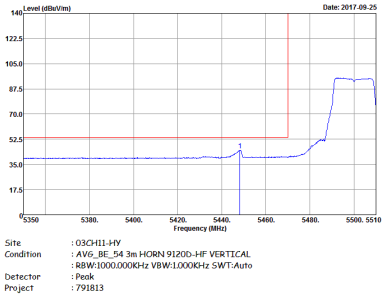
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

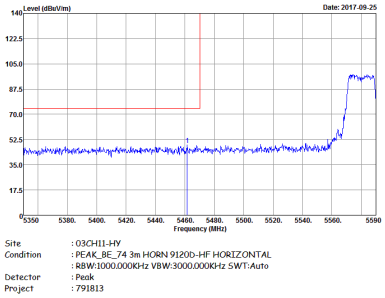
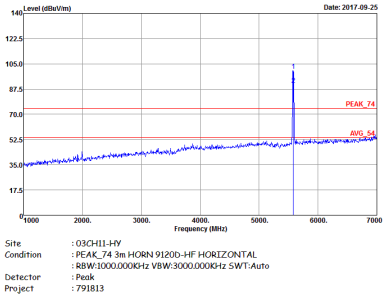
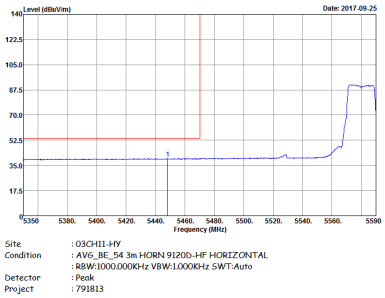
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

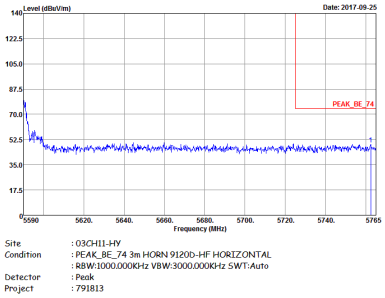
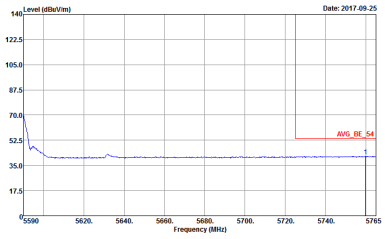
Band 3 5470~5725MHz

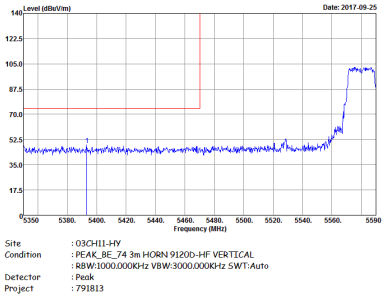
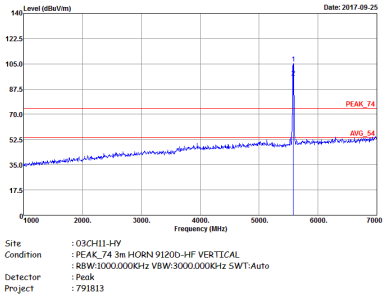
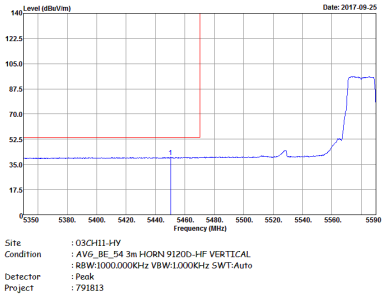
WIFI 802.11n HT20 (Band Edge @ 3m)

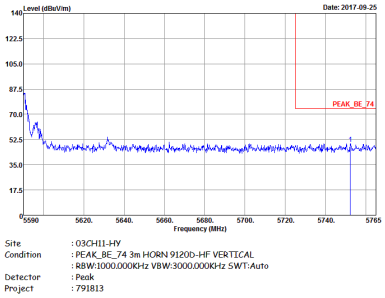
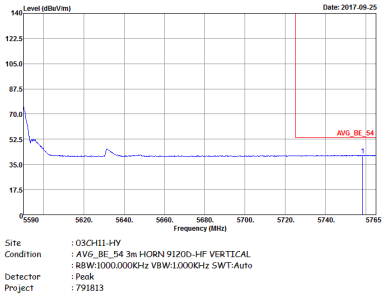
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

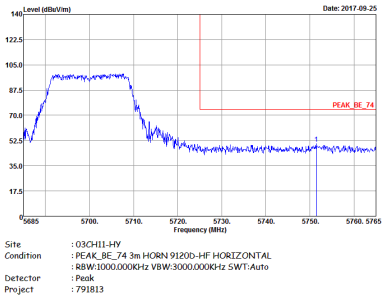
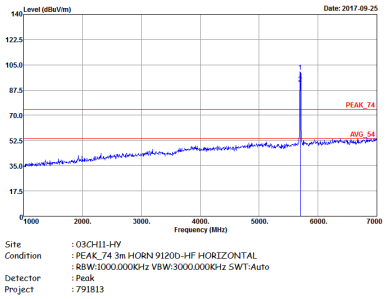
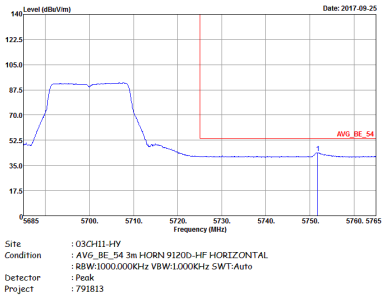
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

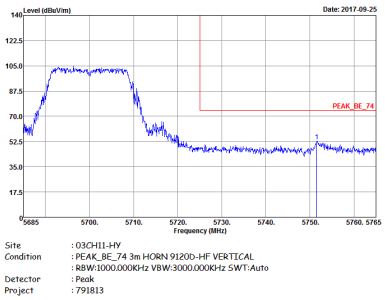
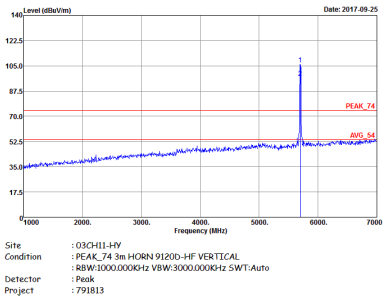
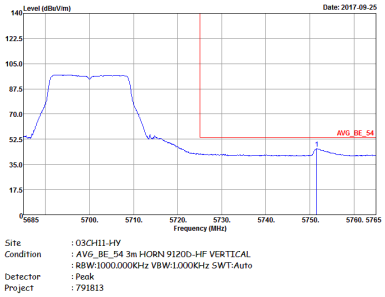
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 791813	Left blank

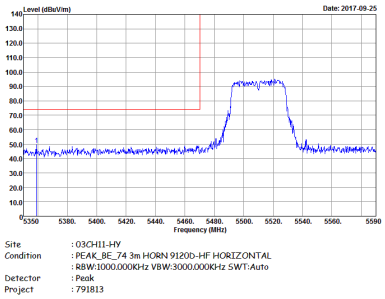
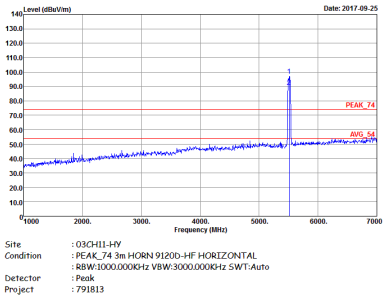
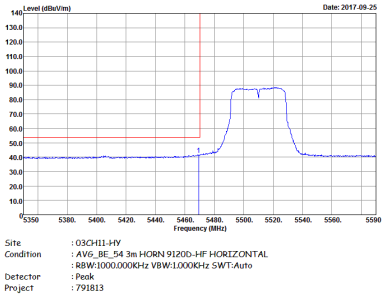
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

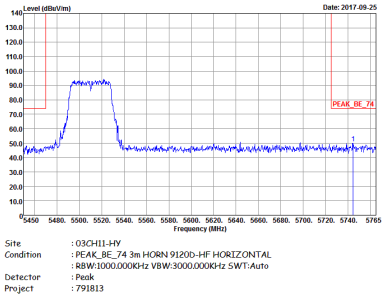
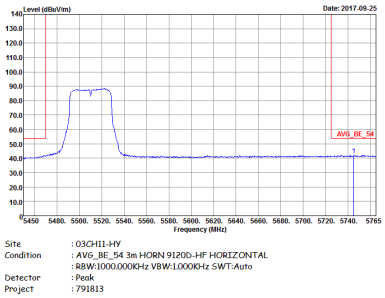
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

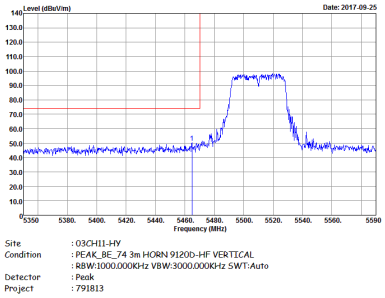
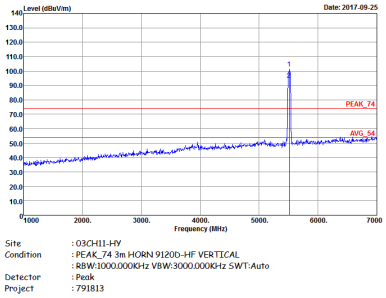
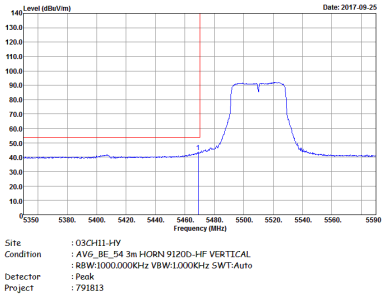
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

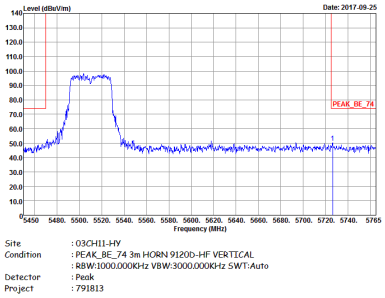
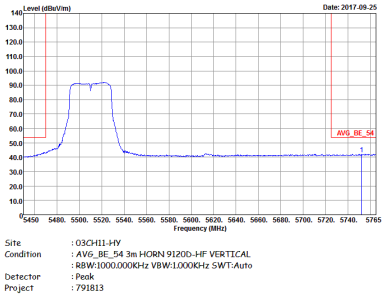
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		
Avg.		Left blank

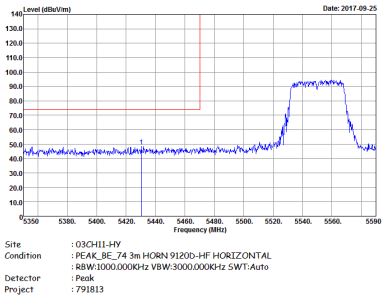
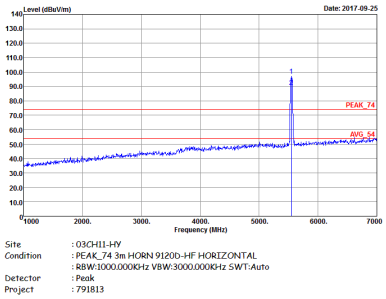
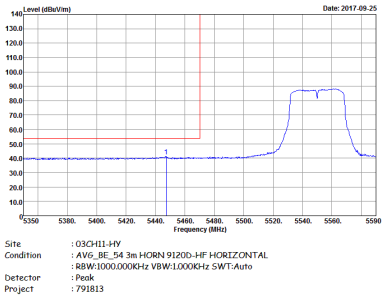
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

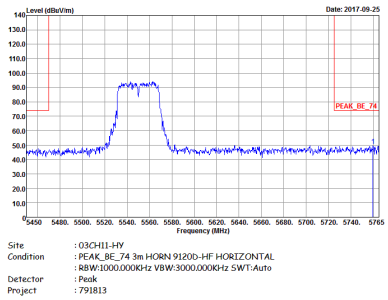
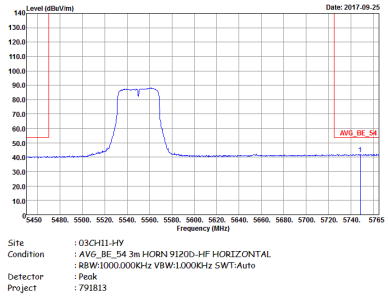
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

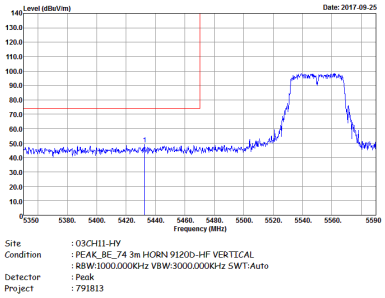
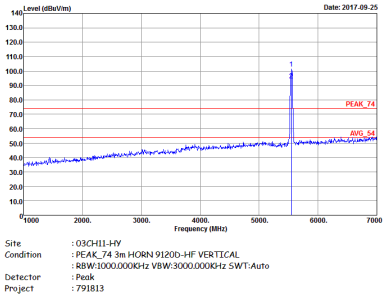
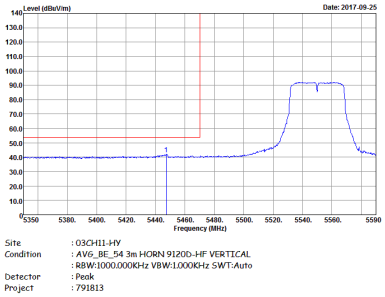
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

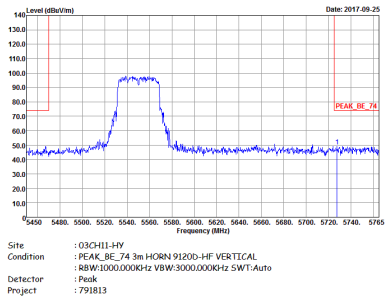
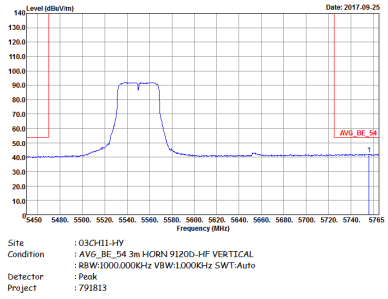
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

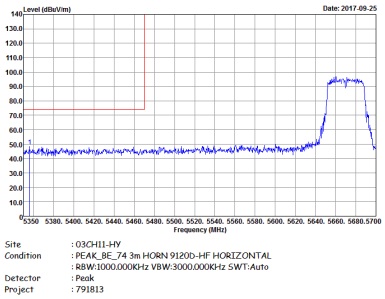
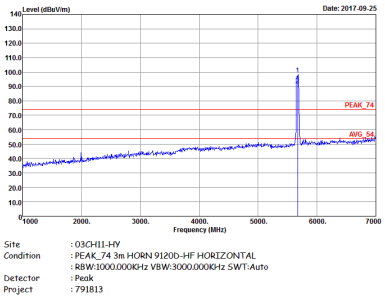
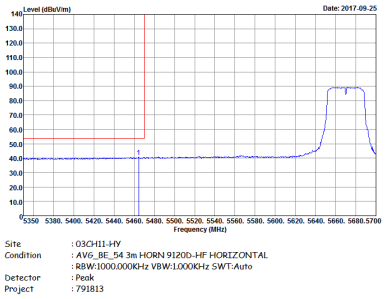
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

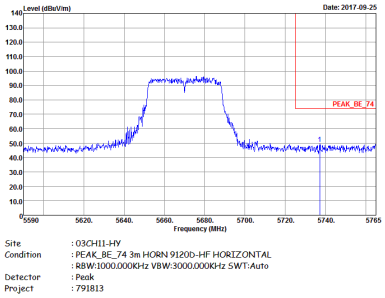
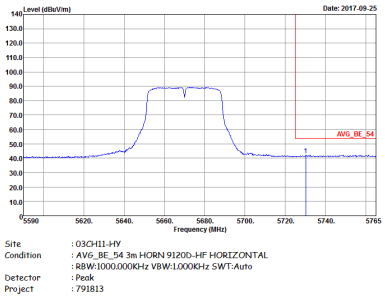
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

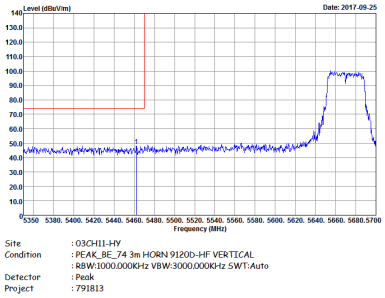
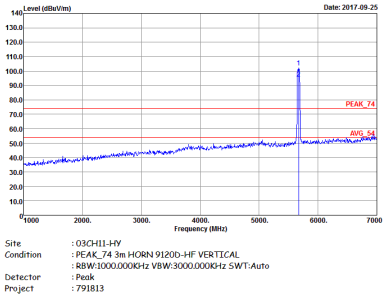
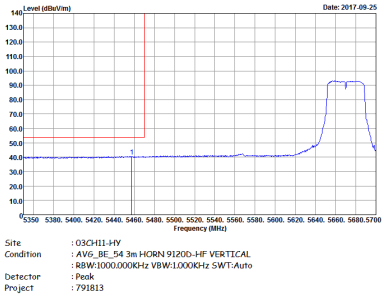
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

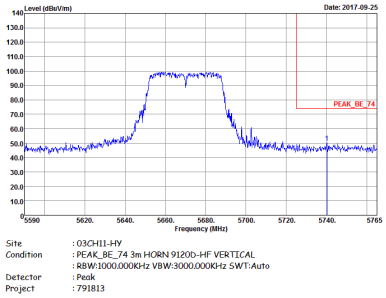
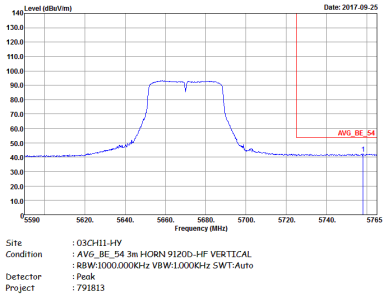
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

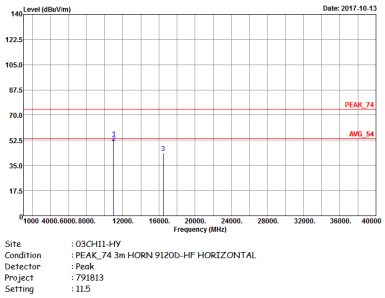
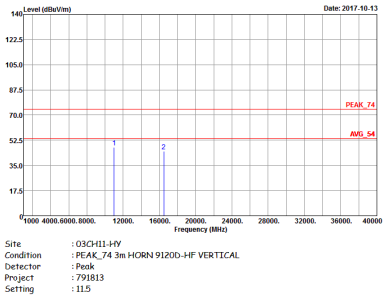
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

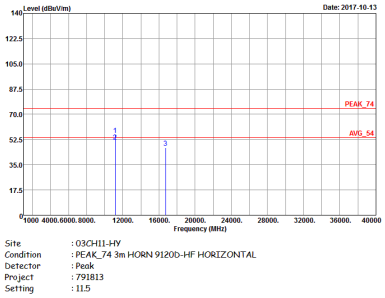
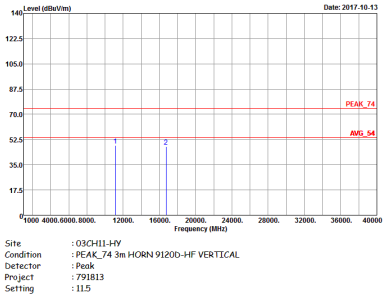
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

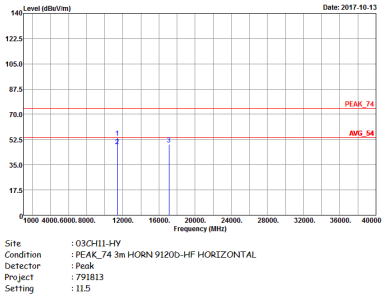
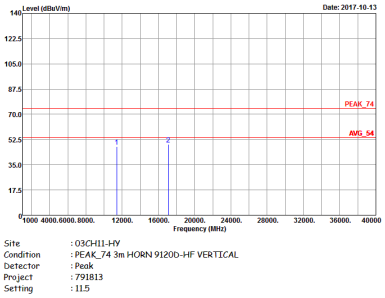
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

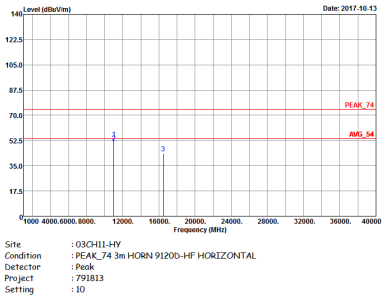
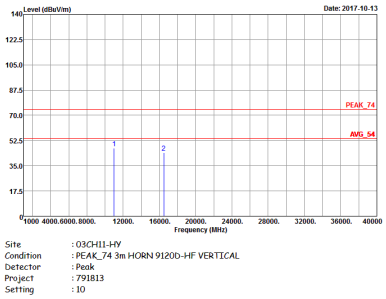
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

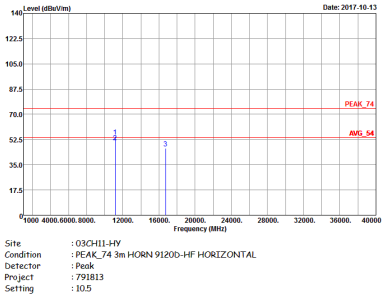
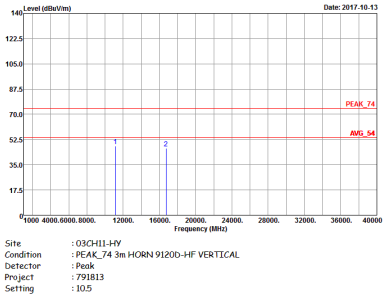
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

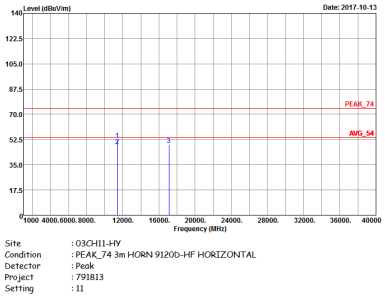
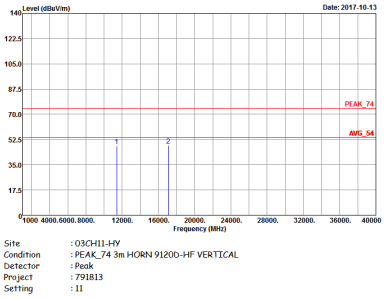
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

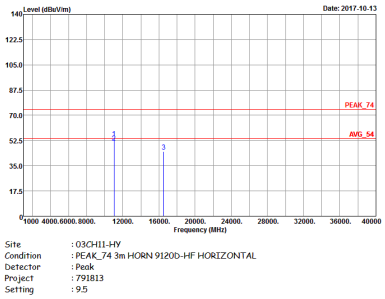
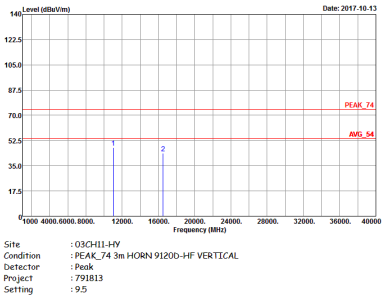
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

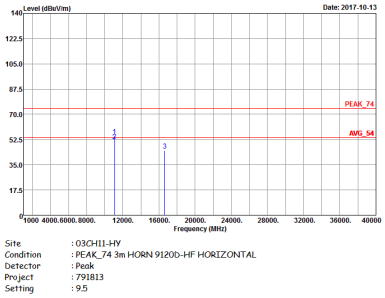
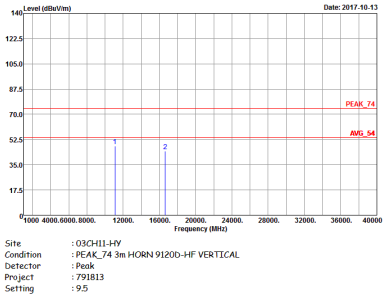
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

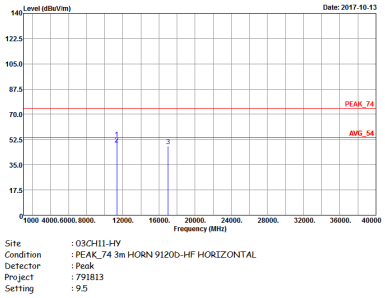
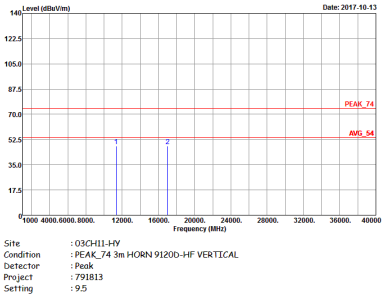
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

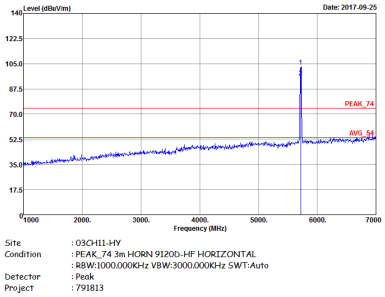
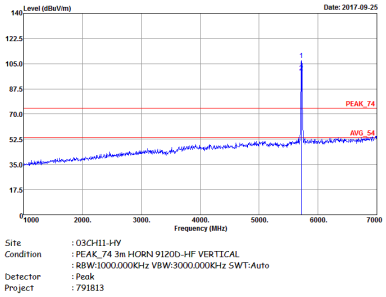
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

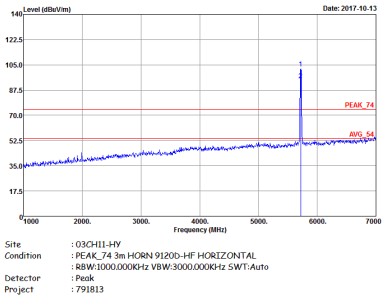
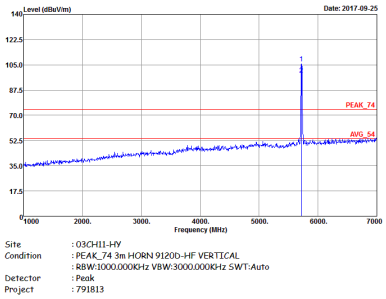
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

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

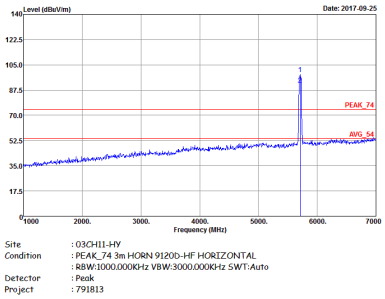
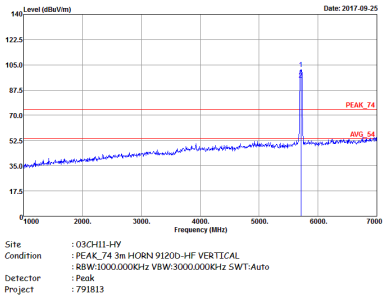
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

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

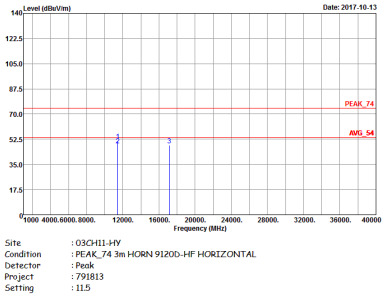
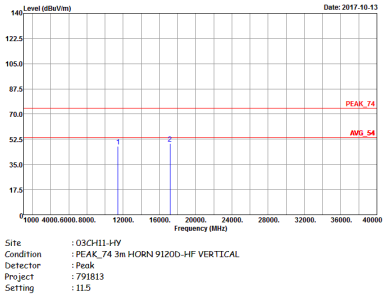
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

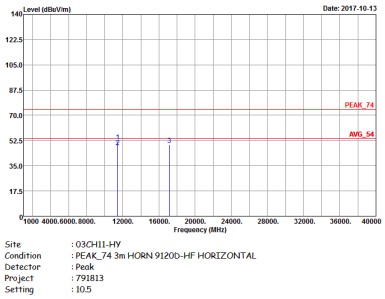
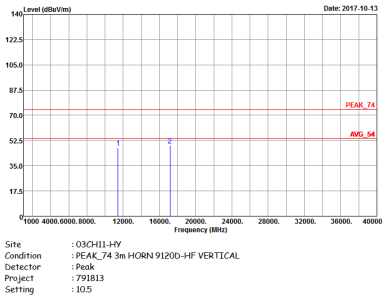
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

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

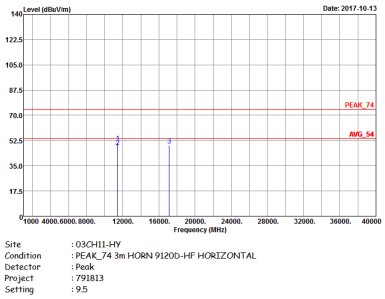
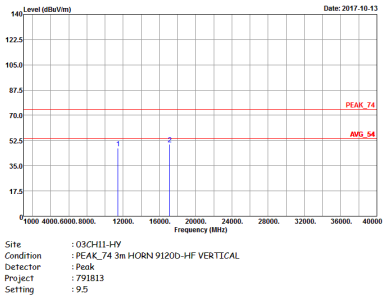
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

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

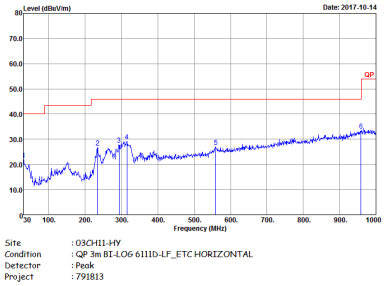
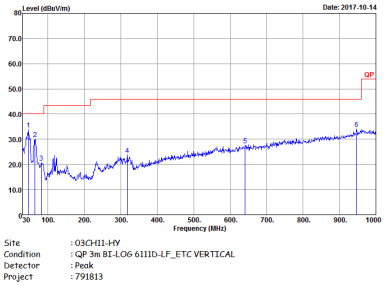
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

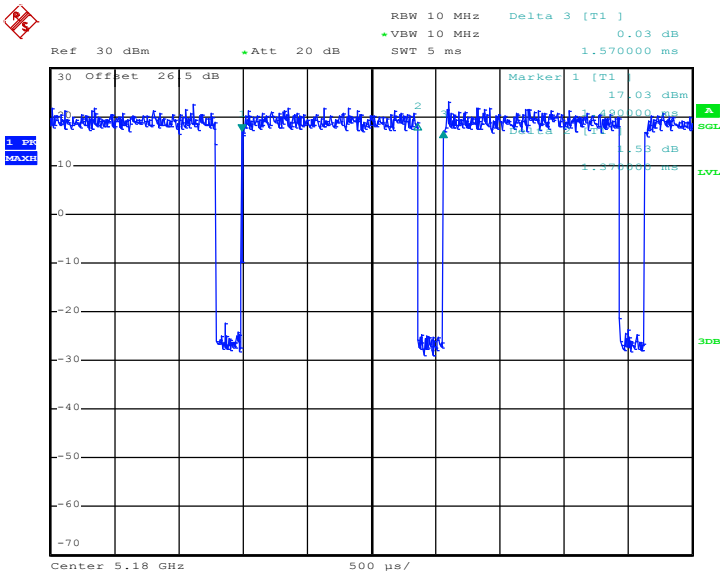
5GHz WIFI 802.11n HT40 (LF)

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

Appendix E. Duty Cycle Plots

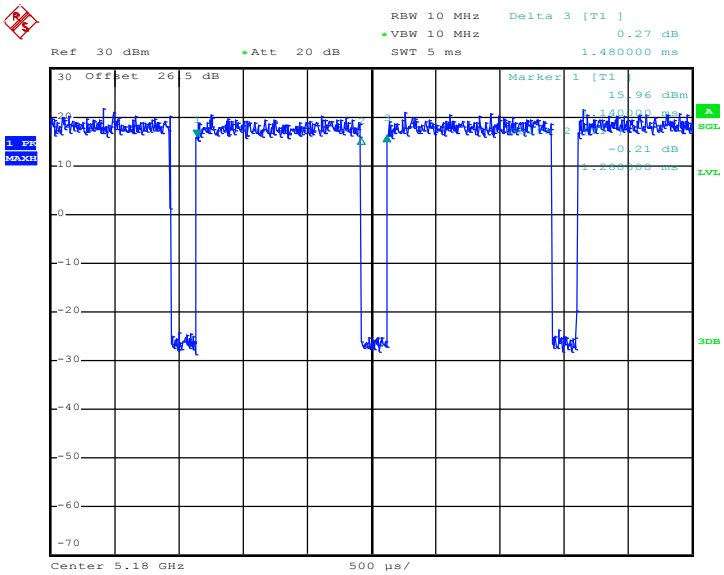
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	87.26	1370	0.73	1kHz
5GHz 802.11n HT20	86.49	1280	0.78	1kHz
5GHz 802.11n HT40	85.71	1230	0.81	1kHz

802.11a



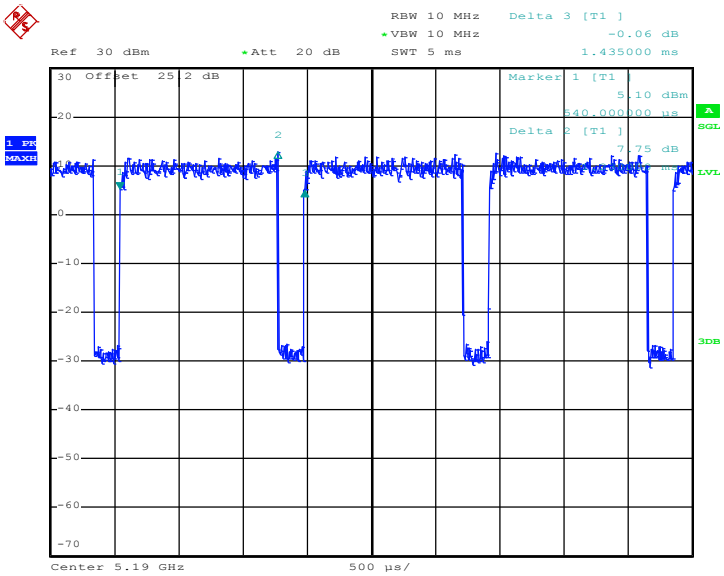
Date: 19.SEP.2017 11:12:11

802.11n HT20



Date: 19.SEP.2017 11:20:45

802.11n HT40



Date: 20.SEP.2017 06:20:35