FCC RF Test Report

APPLICANT	:	Sony Mobile Communications Inc.
EQUIPMENT	:	Smart phone
BRAND NAME	:	Sony
FCC ID	:	PY7-PM0952
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Feb. 04, 2016 and testing was completed on Feb. 26, 2016. 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

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.
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APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. RADIATED SPURIOUS EMISSION

APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR620405E	Rev. 01	Initial issue of report	Apr. 28, 2016
FR620405E	Rev. 02	Updating EUT information in section 1.3.	May 10, 2016
FR620405E	Rev. 03	Adjust band edge and fundamental plot position in appendix C.	May 26, 2016

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 3.89 dB at 30.540 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.50 dB at 0.478 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

Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,Tokyo, 140-0002, Japan

1.2 Manufacturer

Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,Tokyo, 140-0002, Japan

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n, GPS, and NFC

Product Specification subjective to this standard	
Antenna Type	PIFA Antenna
Antenna Gain	**<5150 MHz ~ 5250 MHz>** -1.60 dBi **<5250 MHz ~ 5350 MHz>** -1.50 dBi **<5470 MHz ~ 5725 MHz>** -1.50 dBi

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
004402455816987	A	36.0.A.1.28	WUJ01M8LEX	RF conducted measurement
004402455814016			WUJ01M8BA5	Radiated Spurious Emission
004402455814008			WUJ01M8BA4	Conducted Emission

Accessory List	
AC Adapter	Model No. : UCH20
	Type No. : AC-0060-US
	S/N : 1315W52500072 (for radiated spurious emission) 1315W52500025 (for conducted emission)
Earphone	Model No. : MH410c
	Type No. : AG-1110
	S/N : 1435204403A9122 (for radiated spurious emission) 14321E5F00817B2 (for conducted emission)
USB Cable	Model No. : UCB16
	Type No. : AI-0142
	S/N : 1602A901000542E (for radiated spurious emission) 1602A90A000378C (for conducted emission)

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

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. TW1022 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	03CH07-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 v01r02
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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: conducted emission (150 kHz to 30 MHz) and radiated 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.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102	**5510**	122	5610
	104	5520	124	5620
	108	5540	**126**	**5630**
	110	**5550**	128	5640
	112	5560	132	5660
	114	5570	**134**	**5670**
	116	5580	136	5680
	118	**5590**	140	5700

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

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables.

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Avg. Power (dBm)	13.90	13.87	13.89	13.84	13.87	13.85	13.88	13.88

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power (dBm)	11.42	11.29	11.27	11.25	11.31	11.40	11.41	11.20

5GHz 802.11n HT40mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power (dBm)	11.49	11.46	11.44	11.38	11.42	11.41	11.29	11.18

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from Adapter)

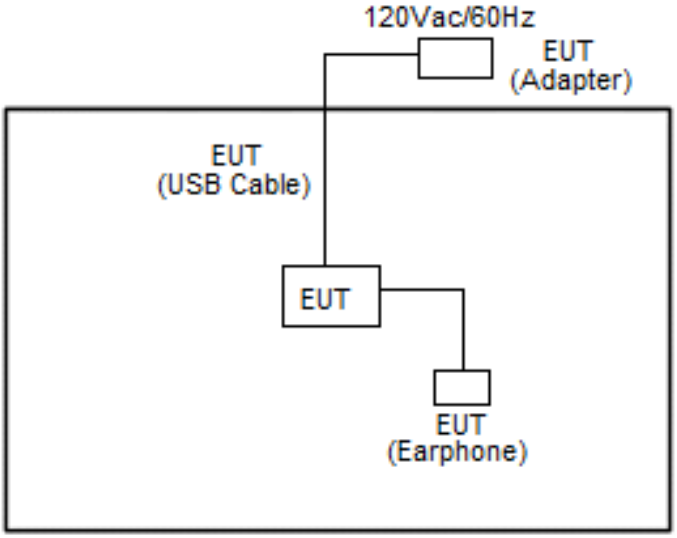
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

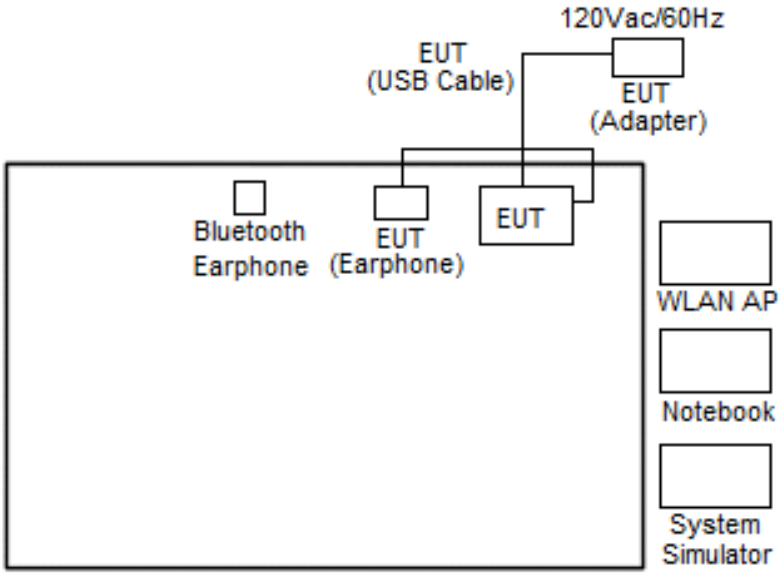
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.4 Connection Diagram of Test System

<Radiated Emission Mode>



<AC Conducted Emission Mode>



2.5 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.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Samsung	SBH20	PY7-RD0010	Unshielded, 0.75 m	N/A
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

2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.7 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.

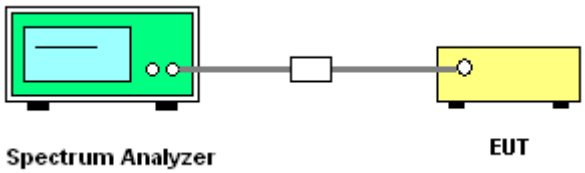
3.1.2 Measuring Instruments

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 v01r02. 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.

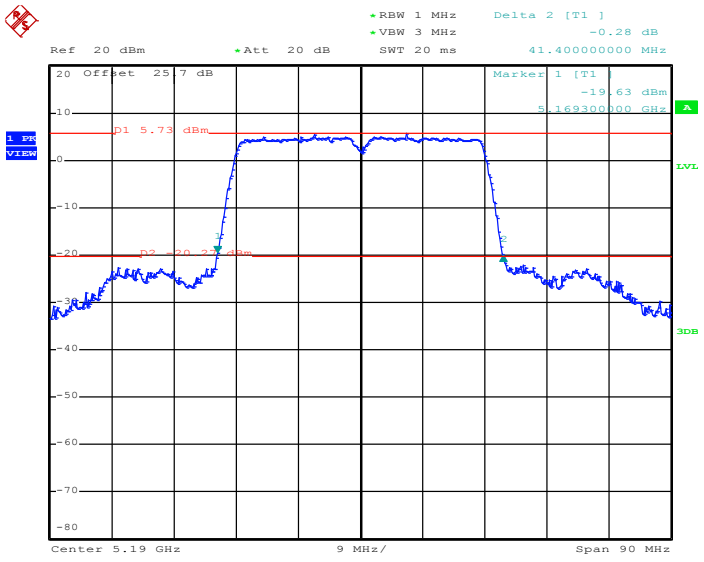
3.1.4 Test Setup



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

Please refer to Appendix A.

Maximum 26dB Bandwidth



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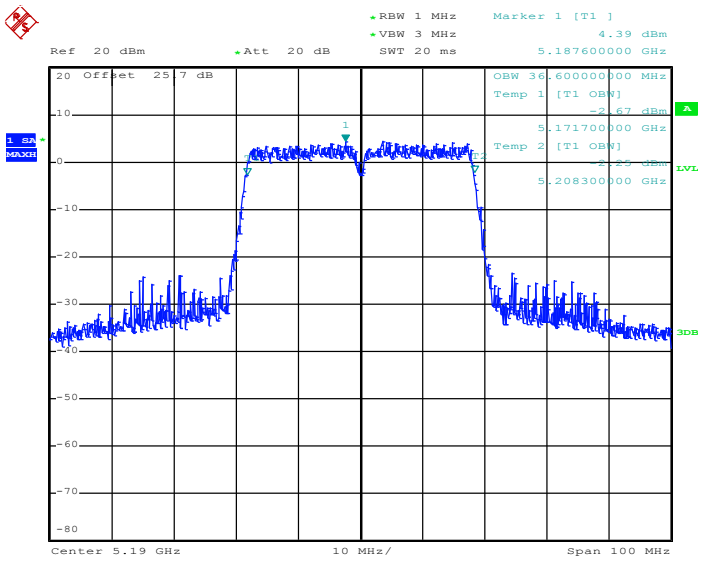
Maximum 99% Occupied Bandwidth



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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

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

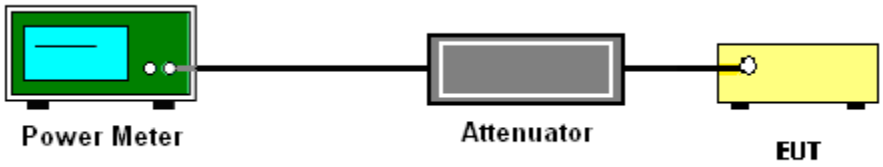
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
Method PM (Measurement using an RF average power meter):

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.

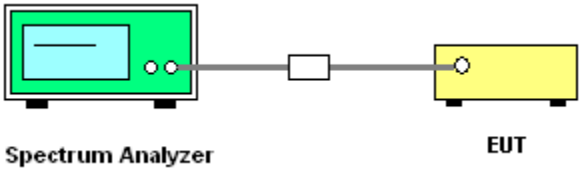
For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:



For straddle 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

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

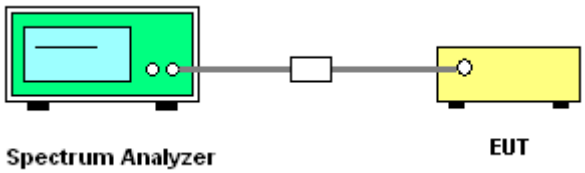
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section F) Maximum power spectral density.

 # 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 v01r02.
   - 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.

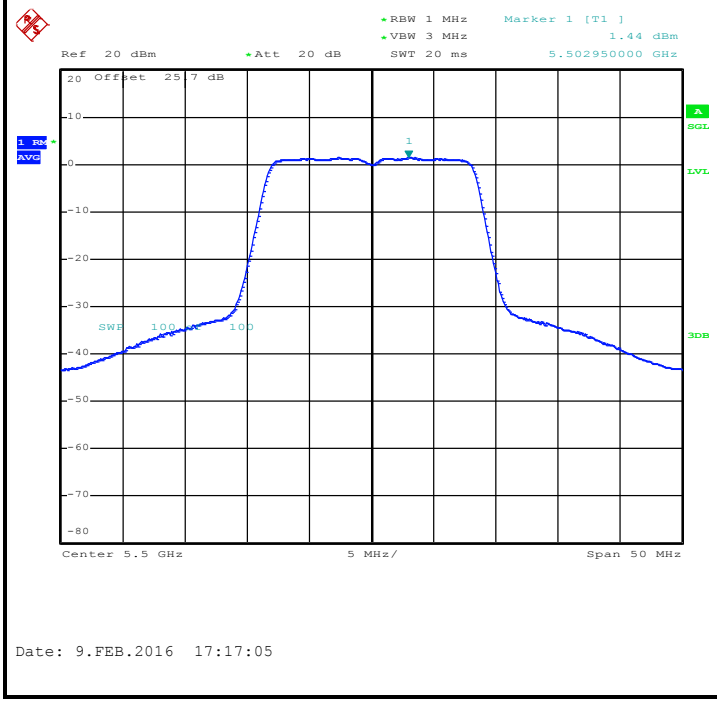
3.3.4 Test Setup



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 as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

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 5470-5600 MHz and 5650-5725MHz 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)
-17	78.3
- 27	68.3

(3) KDB789033 D02 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. 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

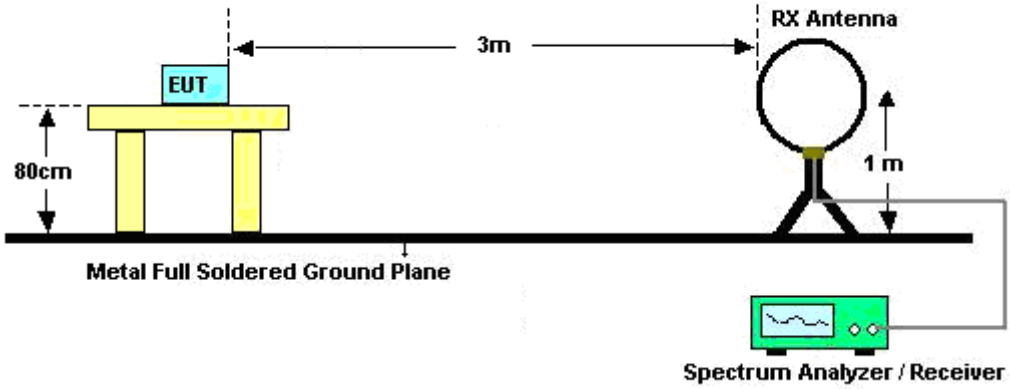
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting
802.11a	97.2	1390	0.72	1kHz
802.11n HT20	97.02	1300	0.77	1kHz
802.11n HT40	94.15	644	1.55	3kHz

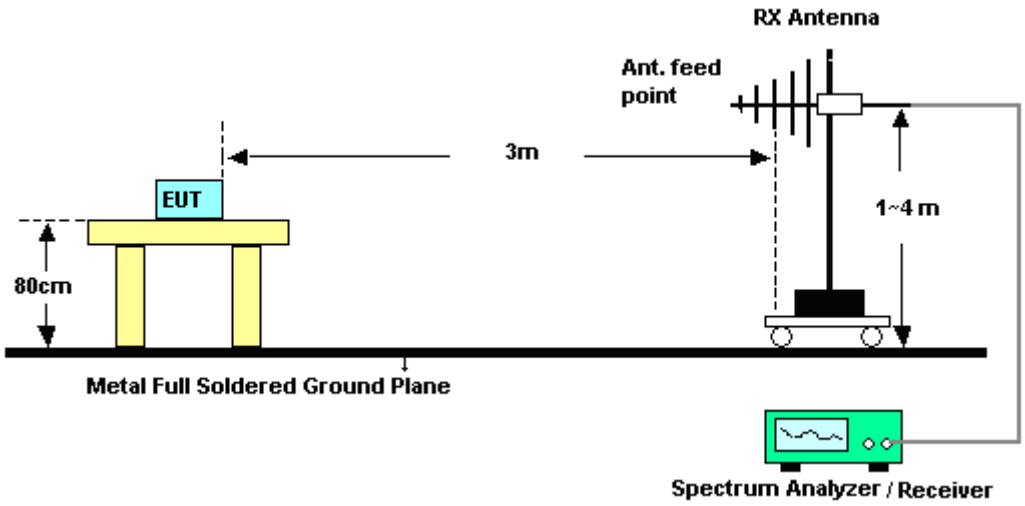
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

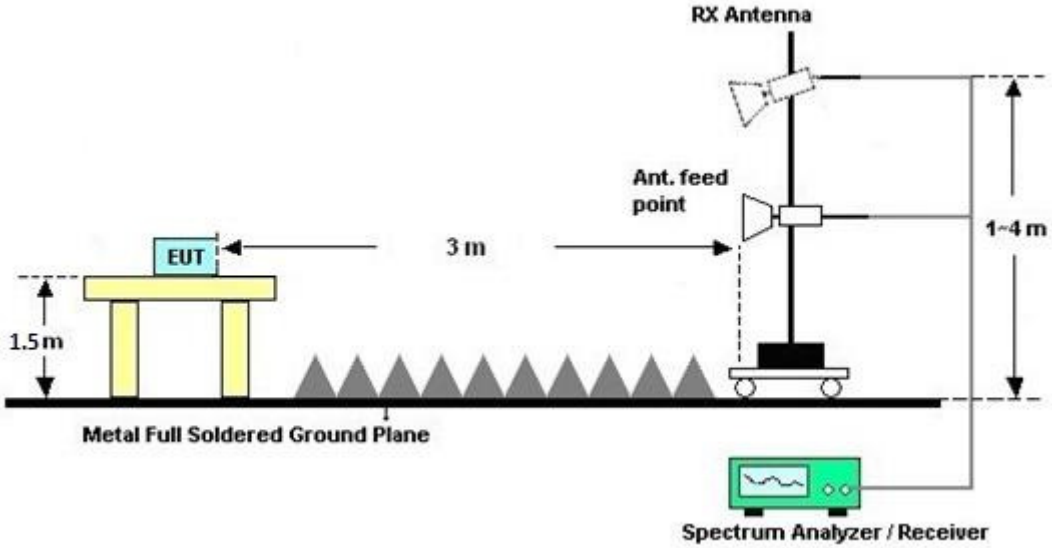
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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 per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Band Edges

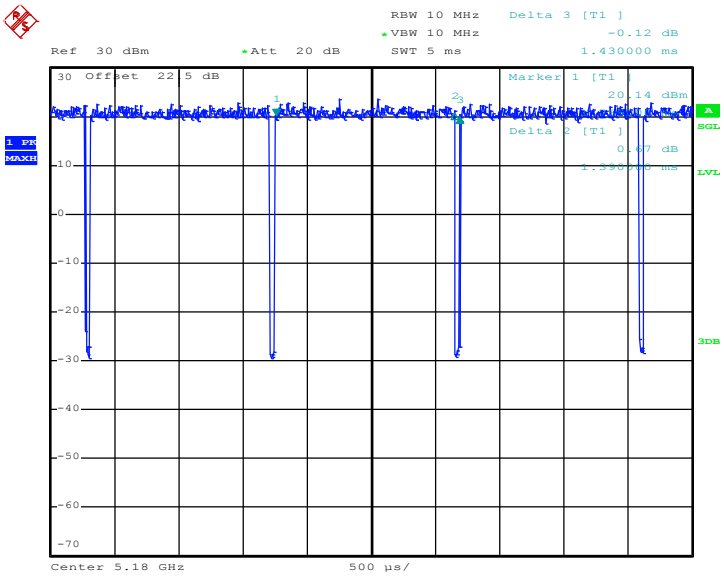
Please refer to Appendix B and C.

3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

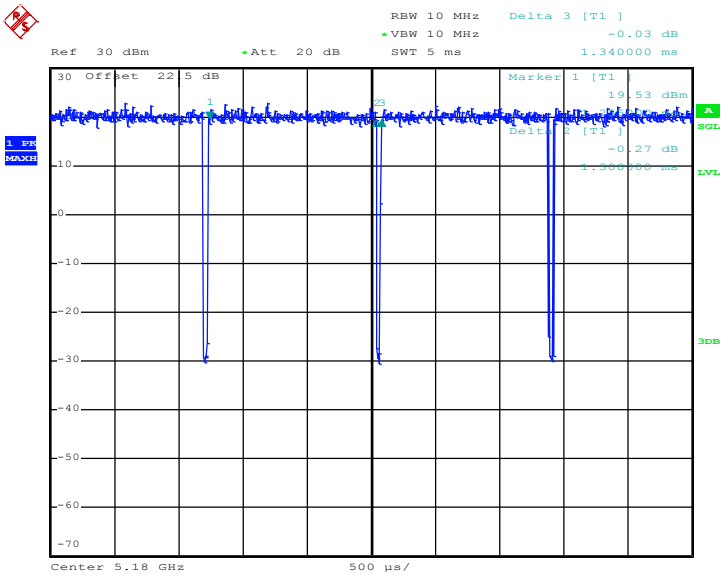
3.4.8 Duty Cycle

802.11a



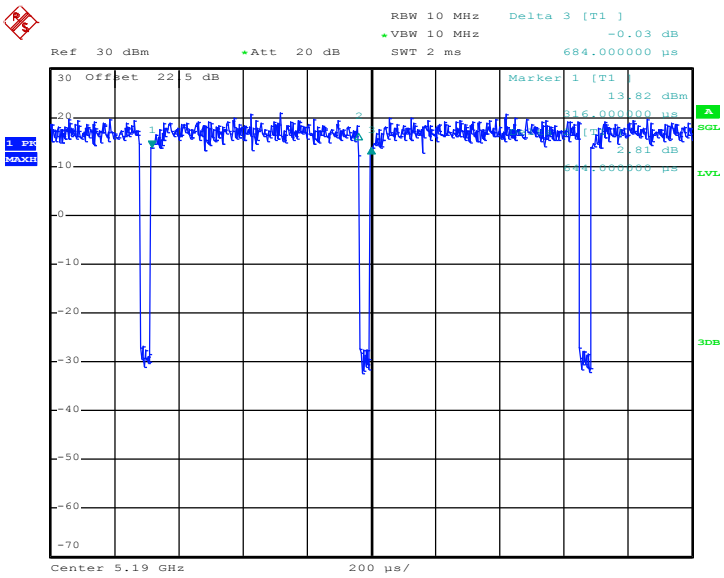
Date: 5.FEB.2016 18:25:46

802.11n HT20



Date: 5.FEB.2016 18:24:52

802.11n HT40



Date: 5.FEB.2016 18:28:18

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.

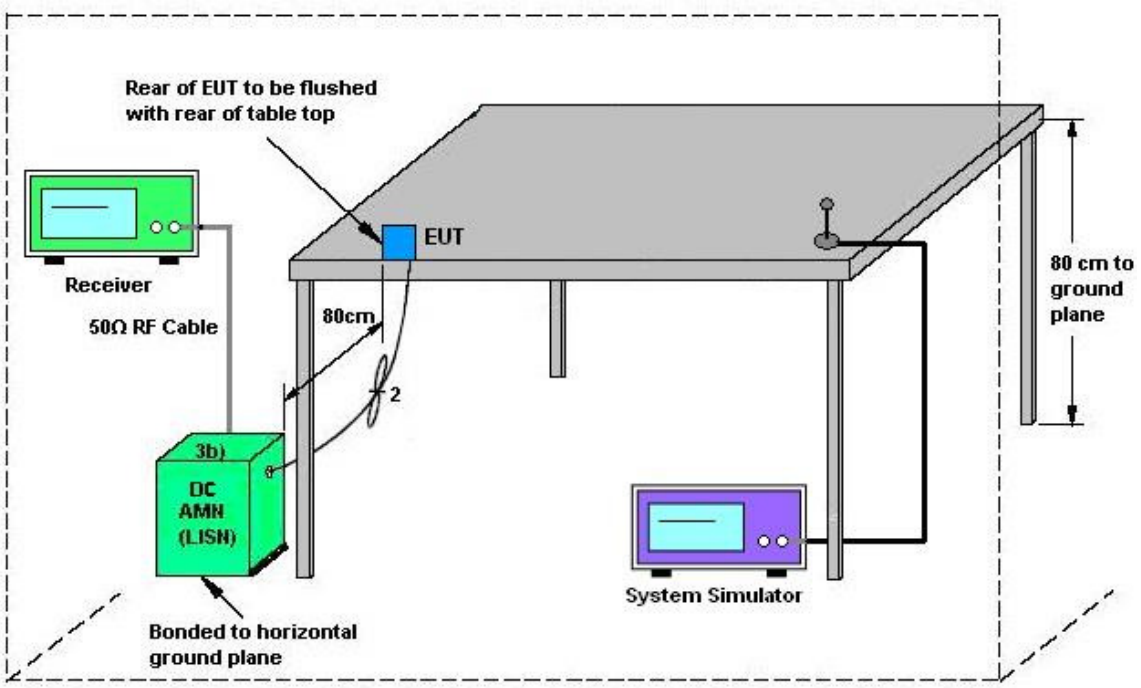
3.5.2 Measuring Instruments

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.

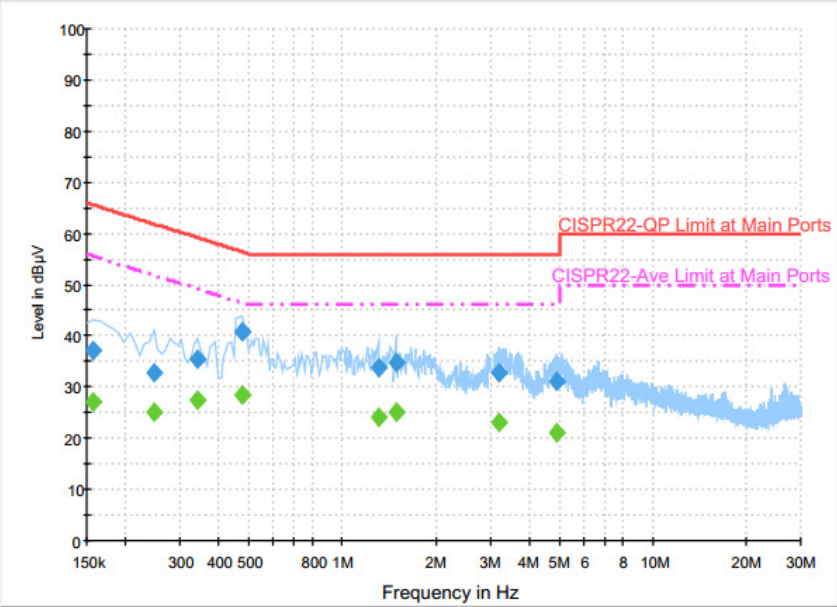
3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from Adapter)		



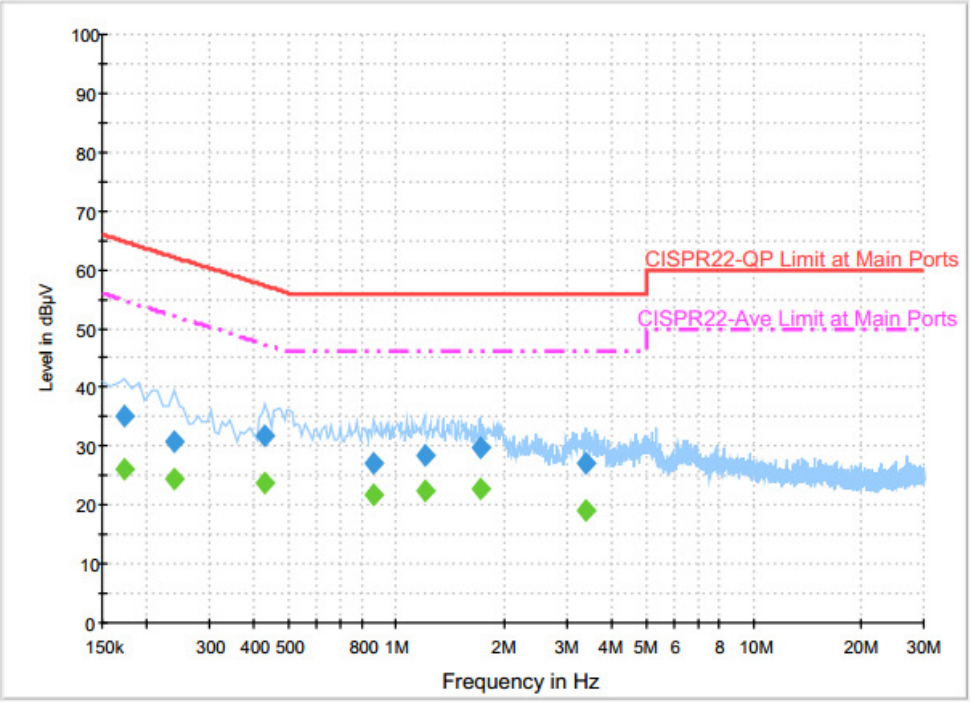
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	37.0	Off	L1	19.6	28.6	65.6
0.246000	32.9	Off	L1	19.6	29.0	61.9
0.342000	35.3	Off	L1	19.6	23.9	59.2
0.478000	40.9	Off	L1	19.6	15.5	56.4
1.302000	33.9	Off	L1	19.6	22.1	56.0
1.486000	34.8	Off	L1	19.6	21.2	56.0
3.206000	32.7	Off	L1	19.6	23.3	56.0
4.918000	31.0	Off	L1	19.7	25.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	27.0	Off	L1	19.6	28.6	55.6
0.246000	25.0	Off	L1	19.6	26.9	51.9
0.342000	27.3	Off	L1	19.6	21.9	49.2
0.478000	28.5	Off	L1	19.6	17.9	46.4
1.302000	24.0	Off	L1	19.6	22.0	46.0
1.486000	25.2	Off	L1	19.6	20.8	46.0
3.206000	22.9	Off	L1	19.6	23.1	46.0
4.918000	21.2	Off	L1	19.7	24.8	46.0

Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from Adapter)		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	35.2	Off	N	19.6	29.6	64.8
0.238000	30.6	Off	N	19.6	31.6	62.2
0.430000	31.8	Off	N	19.6	25.5	57.3
0.862000	27.1	Off	N	19.6	28.9	56.0
1.198000	28.3	Off	N	19.6	27.7	56.0
1.718000	29.8	Off	N	19.6	26.2	56.0
3.382000	27.0	Off	N	19.6	29.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	26.0	Off	N	19.6	28.8	54.8
0.238000	24.3	Off	N	19.6	27.9	52.2
0.430000	23.6	Off	N	19.6	23.7	47.3
0.862000	21.8	Off	N	19.6	24.2	46.0
1.198000	22.3	Off	N	19.6	23.7	46.0
1.718000	22.6	Off	N	19.6	23.4	46.0
3.382000	19.2	Off	N	19.6	26.8	46.0

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.

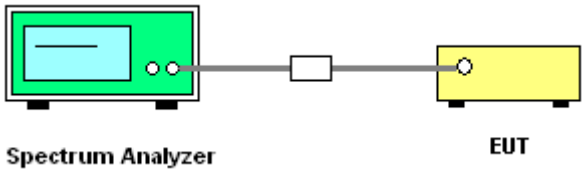
3.6.2 Measuring Instruments

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

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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 Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Aug. 27, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Aug. 26, 2016	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 12, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 12, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 08, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Sep. 07, 2016	Conducted (TH05-HY)
RF Cable	JYEBAO	K30K30-5003-1.5M40	N/A	0.1MHz~40GHz	Mar. 18, 2015	Feb. 05, 2016 ~ Feb. 11, 2016	Mar. 17, 2016	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D	35419	30MHz to 1GHz	Jan. 13, 2016	Feb. 24, 2016 ~ Feb. 26, 2016	Jan. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Aug. 20, 2016	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 12, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Oct. 11, 2016	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Sep. 01, 2016	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 04, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	May 03, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz ~ 18GHz	Apr. 20, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Apr. 19, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 19, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Oct. 18, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Jun. 01, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 03, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Mar. 02, 2016	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Feb. 24, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Feb. 24, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Feb. 24, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Feb. 24, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9KHz~40GHz	Dec. 03, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Dec. 02, 2016	Radiation (03CH07-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Agilent Technologies	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Feb. 01, 2016	Feb. 24, 2016 ~ Feb. 26, 2016	Jan. 31, 2017	Radiation (03CH07-HY)
Test Software	Audix	E3	6.2009-8-24	N/A	N/A	Feb. 24, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Filter	Wainwright	WLKS4500-8SS	SN19	4.5G Low Pass	Oct. 01, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Sep. 30, 2016	Radiation (03CH07-HY)
Filter	Microwave Circuits	H07G18G3	SN8009-01	7GHz HPF	Oct. 01, 2015	Feb. 24, 2016 ~ Feb. 26, 2016	Sep. 30, 2016	Radiation (03CH07-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 22, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Feb. 22, 2016	Aug. 25, 2016	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 20, 2015	Feb. 22, 2016	Apr. 19, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Feb. 22, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Feb. 22, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Feb. 22, 2016	N/A	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.26**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.60**

Appendix A. Conducted Test Results

Report Number : FR620405E

Test Engineer:	Luffy Lin	Temperature:	21.7~23.9	°C
Test Date:	2016/02/05~2015/02/11	Relative Humidity:	51.8~53.4	%

Report Number : FR620405E

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	17.95	27.20	-	22.54		
11a	6Mbps	1	44	5220	17.75	30.10	-	22.49		
11a	6Mbps	1	48	5240	17.80	31.80	-	22.50		
HT20	MCS0	1	36	5180	18.50	22.20	-	22.67		
HT20	MCS0	1	44	5220	18.45	21.90	-	22.66		
HT20	MCS0	1	48	5240	18.60	23.40	-	22.70		
HT40	MCS0	1	38	5190	36.60	41.40	-	23.01		
HT40	MCS0	1	46	5230	36.50	41.40	-	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	0.12	13.90	24.00	-1.60		Pass
11a	6Mbps	1	44	5220	0.12	13.83	24.00	-1.60		Pass
11a	6Mbps	1	48	5240	0.12	13.87	24.00	-1.60		Pass
HT20	MCS0	1	36	5180	0.13	11.42	24.00	-1.60		Pass
HT20	MCS0	1	44	5220	0.13	11.38	24.00	-1.60		Pass
HT20	MCS0	1	48	5240	0.13	11.34	24.00	-1.60		Pass
HT40	MCS0	1	38	5190	0.26	11.49	24.00	-1.60		Pass
HT40	MCS0	1	46	5230	0.26	11.47	24.00	-1.60		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	0.12	1.28	11.00	-1.60		Pass
11a	6Mbps	1	44	5220	0.12	1.42	11.00	-1.60		Pass
11a	6Mbps	1	48	5240	0.12	1.26	11.00	-1.60		Pass
HT20	MCS0	1	36	5180	0.13	-0.99	11.00	-1.60		Pass
HT20	MCS0	1	44	5220	0.13	-0.75	11.00	-1.60		Pass
HT20	MCS0	1	48	5240	0.13	-0.89	11.00	-1.60		Pass
HT40	MCS0	1	38	5190	0.26	-3.49	11.00	-1.60		Pass
HT40	MCS0	1	46	5230	0.26	-3.17	11.00	-1.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	17.8	25.1	23.50	29.50	23.98	
11a	6M bps	1	60	5300	17.65	25.3	23.47	29.47	23.98	
11a	6M bps	1	64	5320	17.65	25.5	23.47	29.47	23.98	
HT20	MCS 0	1	52	5260	18.4	22.1	23.65	29.65	23.98	
HT20	MCS 0	1	60	5300	18.5	24.5	23.67	29.67	23.98	
HT20	MCS 0	1	64	5320	18.45	21.9	23.66	29.66	23.98	
HT40	MCS 0	1	54	5270	36.6	41.4	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.5	41.4	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)		Pass/Fail
11a	6M bps	1	52	5260	0.12	13.67	23.98	-1.50		Pass
11a	6M bps	1	60	5300	0.12	13.68	23.98	-1.50		Pass
11a	6M bps	1	64	5320	0.12	13.73	23.98	-1.50		Pass
HT20	MCS 0	1	52	5260	0.13	11.25	23.98	-1.50		Pass
HT20	MCS 0	1	60	5300	0.13	11.26	23.98	-1.50		Pass
HT20	MCS 0	1	64	5320	0.13	11.34	23.98	-1.50		Pass
HT40	MCS 0	1	54	5270	0.26	11.30	23.98	-1.50		Pass
HT40	MCS 0	1	62	5310	0.26	10.42	23.98	-1.50		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	0.12	0.92	11.00	-1.50		Pass
11a	6M bps	1	60	5300	0.12	0.97	11.00	-1.50		Pass
11a	6M bps	1	64	5320	0.12	1.07	11.00	-1.50		Pass
HT20	MCS 0	1	52	5260	0.13	-1.19	11.00	-1.50		Pass
HT20	MCS 0	1	60	5300	0.13	-1.32	11.00	-1.50		Pass
HT20	MCS 0	1	64	5320	0.13	-0.99	11.00	-1.50		Pass
HT40	MCS 0	1	54	5270	0.26	-3.63	11.00	-1.50		Pass
HT40	MCS 0	1	62	5310	0.26	-4.86	11.00	-1.50		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)	Note
11a	6M bps	1	100	5500	18.5	28.1	23.67	29.67	23.98	
11a	6M bps	1	116	5580	18.5	28.8	23.67	29.67	23.98	
11a	6M bps	1	140	5700	18.45	33.2	23.66	29.66	23.98	
HT20	MCS 0	1	100	5500	18.4	21.8	23.65	29.65	23.98	
HT20	MCS 0	1	116	5580	18.4	23.1	23.65	29.65	23.98	
HT20	MCS 0	1	140	5700	18.5	21.8	23.67	29.67	23.98	
HT40	MCS 0	1	102	5510	36.6	41.4	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.6	41.22	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.5	41.4	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)		Pass/Fail
11a	6M bps	1	100	5500	0.12	13.73	23.98	-1.50		Pass
11a	6M bps	1	116	5580	0.12	13.65	23.98	-1.50		Pass
11a	6M bps	1	140	5700	0.12	13.60	23.98	-1.50		Pass
HT20	MCS 0	1	100	5500	0.13	11.31	23.98	-1.50		Pass
HT20	MCS 0	1	116	5580	0.13	11.22	23.98	-1.50		Pass
HT20	MCS 0	1	140	5700	0.13	11.10	23.98	-1.50		Pass
HT40	MCS 0	1	102	5510	0.26	11.47	23.98	-1.50		Pass
HT40	MCS 0	1	110	5550	0.26	11.34	23.98	-1.50		Pass
HT40	MCS 0	1	134	5670	0.26	11.30	23.98	-1.50		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	0.12	1.56	11.00	-1.50		Pass
11a	6M bps	1	116	5580	0.12	0.88	11.00	-1.50		Pass
11a	6M bps	1	140	5700	0.12	0.66	11.00	-1.50		Pass
HT20	MCS 0	1	100	5500	0.13	-0.27	11.00	-1.50		Pass
HT20	MCS 0	1	116	5580	0.13	-0.32	11.00	-1.50		Pass
HT20	MCS 0	1	140	5700	0.13	-1.09	11.00	-1.50		Pass
HT40	MCS 0	1	102	5510	0.26	-2.87	11.00	-1.50		Pass
HT40	MCS 0	1	110	5550	0.26	-2.73	11.00	-1.50		Pass
HT40	MCS 0	1	134	5670	0.26	-4.28	11.00	-1.50		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.5	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.1	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.7	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	-30	3.7	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	50	3.7	

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	5320.000	0.000	0.00	20	3.5	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.1	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.7	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.7	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	3.7	

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	20	3.5	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.1	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.7	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	3.7	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	3.7	

Appendix B. Radiated Spurious Emission

Test Engineer :	Ken Wu, James Chiu, and Jesse Wang	Temperature :	21~24°C
		Relative Humidity :	50~54%

Band 1 - 5150~5250MHz

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 36 5180MHz		5088.35	49.71	-24.29	74	39.26	34.52	11.14	35.21	318	301	P	H
		5061.05	41.31	-12.69	54	30.89	34.49	11.14	35.21	318	301	A	H
	*	5180	94.4	-	-	83.75	34.66	11.21	35.22	318	301	P	H
	*	5180	86.43	-	-	75.78	34.66	11.21	35.22	318	301	A	H
													H
													H
		5144.6	54.45	-19.55	74	43.85	34.61	11.21	35.22	194	242	P	V
		5148.95	44.26	-9.74	54	33.66	34.61	11.21	35.22	194	242	A	V
	*	5180	102.68	-	-	92.03	34.66	11.21	35.22	194	242	P	V
	*	5180	95.39	-	-	84.74	34.66	11.21	35.22	194	242	A	V
													V
													V
802.11a CH 44 5220MHz		5077.4	49.84	-24.16	74	39.39	34.52	11.14	35.21	315	321	P	H
		5092.1	41.15	-12.85	54	30.68	34.54	11.14	35.21	315	321	A	H
	*	5220	94.49	-	-	83.76	34.7	11.25	35.22	315	321	P	H
	*	5220	87.58	-	-	76.85	34.7	11.25	35.22	315	321	A	H
		5444.71	49.96	-24.04	74	38.3	35.01	11.89	35.24	315	321	P	H
		5458.57	41.26	-12.74	54	29.58	35.03	11.89	35.24	315	321	A	H
		5070.05	51.6	-22.4	74	41.18	34.49	11.14	35.21	201	241	P	V
		5139.95	42.15	-11.85	54	31.58	34.61	11.18	35.22	201	241	A	V
	*	5220	103.71	-	-	92.98	34.7	11.25	35.22	201	241	P	V
	*	5220	95.46	-	-	84.73	34.7	11.25	35.22	201	241	A	V
		5423.92	49.89	-24.11	74	38.26	34.98	11.89	35.24	201	241	P	V
		5372.22	42.2	-11.8	54	30.76	34.91	11.76	35.23	201	241	A	V

802.11a CH 48 5240MHz		5054.9	49.37	-24.63	74	38.98	34.49	11.11	35.21	297	326	P	H
		5100.8	41.14	-12.86	54	30.64	34.54	11.18	35.22	297	326	A	H
	*	5240	94.44	-	-	83.55	34.73	11.38	35.22	297	326	P	H
	*	5240	87.27	-	-	76.38	34.73	11.38	35.22	297	326	A	H
		5362.54	49.65	-24.35	74	38.21	34.91	11.76	35.23	297	326	P	H
		5452.85	41.09	-12.91	54	29.41	35.03	11.89	35.24	297	326	A	H
		5087	50.88	-23.12	74	40.43	34.52	11.14	35.21	199	239	P	V
		5087.9	41.42	-12.58	54	30.97	34.52	11.14	35.21	199	239	A	V
	*	5240	103.11	-	-	92.22	34.73	11.38	35.22	199	239	P	V
	*	5240	95.47	-	-	84.58	34.73	11.38	35.22	199	239	A	V
		5411.49	50.18	-23.82	74	38.57	34.96	11.89	35.24	199	239	P	V
		5392.13	41.99	-12.01	54	30.39	34.94	11.89	35.23	199	239	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	42.01	-31.99	74	47.53	37.22	17.17	59.91	100	0	P	H
		15540	43.42	-30.58	74	41.35	40.34	19.61	57.88	100	0	P	H
													H
													H
		10360	42.39	-31.61	74	47.91	37.22	17.17	59.91	100	0	P	V
		15540	43.9	-30.1	74	41.83	40.34	19.61	57.88	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	42.93	-31.07	74	48.35	37.26	17.17	59.85	100	0	P	H
		15660	43.15	-30.85	74	40.79	40.49	19.68	57.81	100	0	P	H
													H
													H
		10440	42.98	-31.02	74	48.4	37.26	17.17	59.85	100	0	P	V
		15660	43.32	-30.68	74	40.96	40.49	19.68	57.81	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	43.51	-30.49	74	48.86	37.29	17.17	59.81	100	0	P	H
		15720	44.95	-29.05	74	42.42	40.57	19.73	57.77	100	0	P	H
													H
													H
		10480	43.46	-30.54	74	48.81	37.29	17.17	59.81	100	0	P	V
		15720	43.7	-30.3	74	41.17	40.57	19.73	57.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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)
		5056.4	50.12	-23.88	74	39.73	34.49	11.11	35.21	322	324	P	H
		5093.3	41.22	-12.78	54	30.76	34.54	11.14	35.22	322	324	A	H
	*	5180	92.46	-	-	81.81	34.66	11.21	35.22	322	324	P	H
	*	5180	84.9	-	-	74.25	34.66	11.21	35.22	322	324	A	H
802.11n													H
HT20													H
CH 36		5098.7	51.12	-22.88	74	40.66	34.54	11.14	35.22	201	264	P	V
5180MHz		5148.95	42.53	-11.47	54	31.93	34.61	11.21	35.22	201	264	A	V
	*	5179	99.69	-	-	89.04	34.66	11.21	35.22	201	264	P	V
	*	5179	92	-	-	81.35	34.66	11.21	35.22	201	264	A	V
													V
													V
		5053.4	49.81	-24.19	74	39.44	34.47	11.11	35.21	300	321	P	H
		5080.1	41.34	-12.66	54	30.89	34.52	11.14	35.21	300	321	A	H
	*	5220	92.13	-	-	81.4	34.7	11.25	35.22	300	321	P	H
	*	5220	84.47	-	-	73.74	34.7	11.25	35.22	300	321	A	H
802.11n		5458.24	49.56	-24.44	74	37.88	35.03	11.89	35.24	300	321	P	H
HT20		5437.89	41.13	-12.87	54	29.47	35.01	11.89	35.24	300	321	A	H
CH 44		5123.75	50.34	-23.66	74	39.79	34.59	11.18	35.22	201	241	P	V
5220MHz		5139.8	41.55	-12.45	54	30.98	34.61	11.18	35.22	201	241	A	V
	*	5220	100.79	-	-	90.06	34.7	11.25	35.22	201	241	P	V
	*	5220	92	-	-	81.27	34.7	11.25	35.22	201	241	A	V
		5417.76	49.12	-24.88	74	37.49	34.98	11.89	35.24	201	241	P	V
		5371.78	41.48	-12.52	54	30.04	34.91	11.76	35.23	201	241	A	V

802.11n HT20 CH 48 5240MHz		5097.8	50.55	-23.45	74	40.09	34.54	11.14	35.22	298	326	P	H
		5073.35	41.23	-12.77	54	30.78	34.52	11.14	35.21	298	326	A	H
	*	5240	92.27	-	-	81.38	34.73	11.38	35.22	298	326	P	H
	*	5240	84.82	-	-	73.93	34.73	11.38	35.22	298	326	A	H
		5448.56	50.01	-23.99	74	38.33	35.03	11.89	35.24	298	326	P	H
		5454.61	41.26	-12.74	54	29.58	35.03	11.89	35.24	298	326	A	H
		5091.5	49.99	-24.01	74	39.52	34.54	11.14	35.21	200	238	P	V
		5118.35	41.34	-12.66	54	30.82	34.56	11.18	35.22	200	238	A	V
	*	5240	100.26	-	-	89.37	34.73	11.38	35.22	200	238	P	V
	*	5240	92.97	-	-	82.08	34.73	11.38	35.22	200	238	A	V
		5402.69	49.88	-24.12	74	38.27	34.96	11.89	35.24	200	238	P	V
		5391.58	41.52	-12.48	54	29.92	34.94	11.89	35.23	200	238	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	42.4	-31.6	74	47.92	37.22	17.17	59.91	100	0	P	H
		15540	42.98	-31.02	74	40.91	40.34	19.61	57.88	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	41.89	-32.11	74	47.41	37.22	17.17	59.91	100	0	P	V
5180MHz		15540	43.43	-30.57	74	41.36	40.34	19.61	57.88	100	0	P	V
													V
													V
		10440	42.98	-31.02	74	48.4	37.26	17.17	59.85	100	0	P	H
		15660	42.72	-31.28	74	40.36	40.49	19.68	57.81	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	43.29	-30.71	74	48.71	37.26	17.17	59.85	100	0	P	V
5220MHz		15660	42.77	-31.23	74	40.41	40.49	19.68	57.81	100	0	P	V
													V
													V
		10480	43.07	-30.93	74	48.42	37.29	17.17	59.81	100	0	P	H
		15720	43.7	-30.3	74	41.17	40.57	19.73	57.77	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	42.35	-31.65	74	47.7	37.29	17.17	59.81	100	0	P	V
5240MHz		15720	43.59	-30.41	74	41.06	40.57	19.73	57.77	100	0	P	V
													V
													V

Remark

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

Band 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		5089.1	50.97	-23.03	74	40.5	34.54	11.14	35.21	353	320	P	H
		5097.05	42.07	-11.93	54	31.61	34.54	11.14	35.22	353	320	A	H
	*	5190	91.44	-	-	80.75	34.66	11.25	35.22	353	320	P	H
	*	5190	82.25	-	-	71.56	34.66	11.25	35.22	353	320	A	H
		5434.15	49.98	-24.02	74	38.32	35.01	11.89	35.24	353	320	P	H
		5432.61	41.69	-12.31	54	30.03	35.01	11.89	35.24	353	320	A	H
		5149.85	57.79	-16.21	74	47.19	34.61	11.21	35.22	203	243	P	V
		5149.25	47.36	-6.64	54	36.76	34.61	11.21	35.22	203	243	A	V
	*	5190	98.67	-	-	87.98	34.66	11.25	35.22	203	243	P	V
	*	5190	89.88	-	-	79.19	34.66	11.25	35.22	203	243	A	V
		5381.68	50.57	-23.43	74	38.97	34.94	11.89	35.23	203	243	P	V
		5455.38	41.8	-12.2	54	30.12	35.03	11.89	35.24	203	243	A	V
802.11n HT40 CH 46 5230MHz		5101.55	49.43	-24.57	74	38.93	34.54	11.18	35.22	315	324	P	H
		5070.35	42.06	-11.94	54	31.64	34.49	11.14	35.21	315	324	A	H
	*	5230	90.72	-	-	79.83	34.73	11.38	35.22	315	324	P	H
	*	5230	82.07	-	-	71.18	34.73	11.38	35.22	315	324	A	H
		5393.23	50.29	-23.71	74	38.69	34.94	11.89	35.23	315	324	P	H
		5452.96	41.81	-12.19	54	30.13	35.03	11.89	35.24	315	324	A	H
		5113.55	50.94	-23.06	74	40.42	34.56	11.18	35.22	200	243	P	V
		5076.65	41.92	-12.08	54	31.47	34.52	11.14	35.21	200	243	A	V
	*	5230	98.71	-	-	87.82	34.73	11.38	35.22	200	243	P	V
	*	5230	89.76	-	-	78.87	34.73	11.38	35.22	200	243	A	V
		5358.69	50.14	-23.86	74	38.72	34.89	11.76	35.23	200	243	P	V
		5379.04	42.12	-11.88	54	30.65	34.94	11.76	35.23	200	243	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	42.41	-31.59	74	47.9	37.23	17.17	59.89	100	0	P	H
		15570	43.81	-30.19	74	41.66	40.38	19.63	57.86	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	42.11	-31.89	74	47.6	37.23	17.17	59.89	100	0	P	V
5190MHz		15570	44.45	-29.55	74	42.3	40.38	19.63	57.86	100	0	P	V
													V
													V
		10460	42.85	-31.15	74	48.25	37.27	17.17	59.84	100	0	P	H
		15690	42.64	-31.36	74	40.2	40.53	19.7	57.79	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	42.5	-31.5	74	47.9	37.27	17.17	59.84	100	0	P	V
5230MHz		15690	43.23	-30.77	74	40.79	40.53	19.7	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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		5072.3	51.2	-22.8	74	40.75	34.52	11.14	35.21	281	326	P	H
		5090.75	41.09	-12.91	54	30.62	34.54	11.14	35.21	281	326	A	H
	*	5260	95.03	-	-	84.11	34.77	11.38	35.23	281	326	P	H
	*	5260	87.57	-	-	76.65	34.77	11.38	35.23	281	326	A	H
		5441.52	50.21	-23.79	74	38.55	35.01	11.89	35.24	281	326	P	H
		5458.79	41.15	-12.85	54	29.47	35.03	11.89	35.24	281	326	A	H
		5097.05	50.08	-23.92	74	39.62	34.54	11.14	35.22	190	240	P	V
		5107.4	41.43	-12.57	54	30.91	34.56	11.18	35.22	190	240	A	V
	*	5260	103.86	-	-	92.94	34.77	11.38	35.23	190	240	P	V
	*	5260	95.48	-	-	84.56	34.77	11.38	35.23	190	240	A	V
		5455.05	50.12	-23.88	74	38.44	35.03	11.89	35.24	190	240	P	V
		5412.92	41.74	-12.26	54	30.11	34.98	11.89	35.24	190	240	A	V
802.11a CH 60 5300MHz		5079.35	50.35	-23.65	74	39.9	34.52	11.14	35.21	293	325	P	H
		5103.2	41.1	-12.9	54	30.6	34.54	11.18	35.22	293	325	A	H
	*	5300	95.65	-	-	84.55	34.82	11.51	35.23	293	325	P	H
	*	5300	88.71	-	-	77.61	34.82	11.51	35.23	293	325	A	H
		5358.14	50.09	-23.91	74	38.67	34.89	11.76	35.23	293	325	P	H
		5454.06	41.1	-12.9	54	29.42	35.03	11.89	35.24	293	325	A	H
		5079.35	51.09	-22.91	74	40.64	34.52	11.14	35.21	189	233	P	V
		5095.4	41.3	-12.7	54	30.84	34.54	11.14	35.22	189	233	A	V
	*	5300	103.39	-	-	92.29	34.82	11.51	35.23	189	233	P	V
	*	5300	96.07	-	-	84.97	34.82	11.51	35.23	189	233	A	V
		5453.84	51.11	-22.89	74	39.43	35.03	11.89	35.24	189	233	P	V
		5359.57	43.02	-10.98	54	31.6	34.89	11.76	35.23	189	233	A	V

802.11a CH 64 5320MHz	*	5320	95.61	-	-	84.37	34.84	11.63	35.23	300	299	P	H
	*	5320	87.8	-	-	76.56	34.84	11.63	35.23	300	299	A	H
		5454.72	49.92	-24.08	74	38.24	35.03	11.89	35.24	300	299	P	H
		5350.11	41.11	-12.89	54	29.69	34.89	11.76	35.23	300	299	A	H
													H
													H
	*	5320	103.6	-	-	92.36	34.84	11.63	35.23	207	236	P	V
	*	5320	96.15	-	-	84.91	34.84	11.63	35.23	207	236	A	V
		5351.54	52.4	-21.6	74	40.98	34.89	11.76	35.23	207	236	P	V
		5350.33	44.88	-9.12	54	33.46	34.89	11.76	35.23	207	236	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	41.72	-32.28	74	47.01	37.32	17.17	59.78	100	0	P	H
		15780	44.38	-29.62	74	41.73	40.63	19.75	57.73	100	0	P	H
													H
													H
		10520	42.37	-31.63	74	47.66	37.32	17.17	59.78	100	0	P	V
		15780	44.26	-29.74	74	41.61	40.63	19.75	57.73	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	42.24	-31.76	74	47.31	37.42	17.17	59.66	100	0	P	H
		15900	45.18	-28.82	74	42.24	40.78	19.82	57.66	100	0	P	H
													H
													H
		10600	41.39	-32.61	74	46.46	37.42	17.17	59.66	100	0	P	V
		15900	44.12	-29.88	74	41.18	40.78	19.82	57.66	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	42.93	-31.07	74	47.9	37.47	17.17	59.61	100	0	P	H
		15960	43.69	-30.31	74	40.58	40.86	19.87	57.62	100	0	P	H
													H
													H
		10640	42.54	-31.46	74	47.51	37.47	17.17	59.61	100	0	P	V
		15960	43.85	-30.15	74	40.74	40.86	19.87	57.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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)
		5121.35	50.12	-23.88	74	39.6	34.56	11.18	35.22	300	119	P	H
		5113.85	41.16	-12.84	54	30.64	34.56	11.18	35.22	300	119	A	H
	*	5260	92.13	-	-	81.21	34.77	11.38	35.23	300	119	P	H
	*	5260	83.28	-	-	72.36	34.77	11.38	35.23	300	119	A	H
802.11n		5417.54	49.58	-24.42	74	37.95	34.98	11.89	35.24	300	119	P	H
HT20		5440.75	41.13	-12.87	54	29.47	35.01	11.89	35.24	300	119	A	H
CH 52		5099.3	50.02	-23.98	74	39.56	34.54	11.14	35.22	200	231	P	V
5260MHz		5086.85	41.23	-12.77	54	30.78	34.52	11.14	35.21	200	231	A	V
	*	5260	100.98	-	-	90.06	34.77	11.38	35.23	200	231	P	V
	*	5260	91.94	-	-	81.02	34.77	11.38	35.23	200	231	A	V
		5352.97	51.39	-22.61	74	39.97	34.89	11.76	35.23	200	231	P	V
		5412.7	41.74	-12.26	54	30.11	34.98	11.89	35.24	200	231	A	V
		5099.45	50.27	-23.73	74	39.81	34.54	11.14	35.22	294	325	P	H
		5067.65	41.15	-12.85	54	30.73	34.49	11.14	35.21	294	325	A	H
	*	5299	94.55	-	-	83.45	34.82	11.51	35.23	294	325	P	H
	*	5299	85.66	-	-	74.56	34.82	11.51	35.23	294	325	A	H
802.11n		5451.09	49.75	-24.25	74	38.07	35.03	11.89	35.24	294	325	P	H
HT20		5440.53	41.28	-12.72	54	29.62	35.01	11.89	35.24	294	325	A	H
CH 60		5135.3	49.46	-24.54	74	38.91	34.59	11.18	35.22	188	234	P	V
5300MHz		5053.4	41.31	-12.69	54	30.94	34.47	11.11	35.21	188	234	A	V
	*	5300	101.56	-	-	90.46	34.82	11.51	35.23	188	234	P	V
	*	5300	92.81	-	-	81.71	34.82	11.51	35.23	188	234	A	V
		5358.91	50.58	-23.42	74	39.16	34.89	11.76	35.23	188	234	P	V
		5355.06	42.46	-11.54	54	31.04	34.89	11.76	35.23	188	234	A	V

	*	5320	94.43	-	-	83.19	34.84	11.63	35.23	300	299	P	H
	*	5320	85.04	-	-	73.8	34.84	11.63	35.23	300	299	A	H
		5350.66	49.93	-24.07	74	38.51	34.89	11.76	35.23	300	299	P	H
		5456.92	41.16	-12.84	54	29.48	35.03	11.89	35.24	300	299	A	H
802.11n													H
HT20													H
CH 64	*	5320	102.14	-	-	90.9	34.84	11.63	35.23	210	225	P	V
5320MHz	*	5320	93.14	-	-	81.9	34.84	11.63	35.23	210	225	A	V
		5352.64	51.2	-22.8	74	39.78	34.89	11.76	35.23	210	225	P	V
		5350.66	43.29	-10.71	54	31.87	34.89	11.76	35.23	210	225	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	42.01	-31.99	74	47.3	37.32	17.17	59.78	100	0	P	H
		15780	44.65	-29.35	74	42	40.63	19.75	57.73	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	42.31	-31.69	74	47.6	37.32	17.17	59.78	100	0	P	V
5260MHz		15780	44.26	-29.74	74	41.61	40.63	19.75	57.73	100	0	P	V
													V
													V
		10600	42.31	-31.69	74	47.38	37.42	17.17	59.66	100	0	P	H
		15900	44.7	-29.3	74	41.76	40.78	19.82	57.66	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	42.23	-31.77	74	47.3	37.42	17.17	59.66	100	0	P	V
5300MHz		15900	44.98	-29.02	74	42.04	40.78	19.82	57.66	100	0	P	V
													V
													V
		10640	41.88	-32.12	74	46.85	37.47	17.17	59.61	100	0	P	H
		15960	44.09	-29.91	74	40.98	40.86	19.87	57.62	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	44.05	-29.95	74	49.02	37.47	17.17	59.61	100	0	P	V
5320MHz		15960	44.69	-29.31	74	41.58	40.86	19.87	57.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 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		5136.35	50.99	-23.01	74	40.44	34.59	11.18	35.22	326	323	P	H
		5043.2	41.92	-12.08	54	31.55	34.47	11.11	35.21	326	323	A	H
	*	5270	91.41	-	-	80.36	34.77	11.51	35.23	326	323	P	H
	*	5270	82.75	-	-	71.7	34.77	11.51	35.23	326	323	A	H
		5418.42	49.74	-24.26	74	38.11	34.98	11.89	35.24	326	323	P	H
		5456.81	41.88	-12.12	54	30.2	35.03	11.89	35.24	326	323	A	H
		5055.35	50.36	-23.64	74	39.97	34.49	11.11	35.21	200	232	P	V
		5122.1	42.12	-11.88	54	31.6	34.56	11.18	35.22	200	232	A	V
	*	5270	98.78	-	-	87.73	34.77	11.51	35.23	200	232	P	V
	*	5270	89.9	-	-	78.85	34.77	11.51	35.23	200	232	A	V
		5369.69	49.73	-24.27	74	38.29	34.91	11.76	35.23	200	232	P	V
		5418.42	42.28	-11.72	54	30.65	34.98	11.89	35.24	200	232	A	V
802.11n HT40 CH 62 5310MHz		5060.15	50.64	-23.36	74	40.22	34.49	11.14	35.21	300	300	P	H
		5067.35	41.91	-12.09	54	31.49	34.49	11.14	35.21	300	300	A	H
	*	5310	90.91	-	-	79.67	34.84	11.63	35.23	300	300	P	H
	*	5310	82.7	-	-	71.46	34.84	11.63	35.23	300	300	A	H
		5350.11	54.48	-19.52	74	43.06	34.89	11.76	35.23	300	300	P	H
		5350.11	43.9	-10.1	54	32.48	34.89	11.76	35.23	300	300	A	H
		5104.25	50.67	-23.33	74	40.17	34.54	11.18	35.22	199	233	P	V
		5085.05	42.16	-11.84	54	31.71	34.52	11.14	35.21	199	233	A	V
	*	5310	99.47	-	-	88.23	34.84	11.63	35.23	199	233	P	V
	*	5310	90.41	-	-	79.17	34.84	11.63	35.23	199	233	A	V
		5350.99	61.02	-12.98	74	49.6	34.89	11.76	35.23	199	233	P	V
		5352.31	50.02	-3.98	54	38.6	34.89	11.76	35.23	199	233	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	42.53	-31.47	74	47.77	37.34	17.17	59.75	100	0	P	H
		15810	43.34	-30.66	74	40.61	40.67	19.77	57.71	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	41.85	-32.15	74	47.09	37.34	17.17	59.75	100	0	P	V
5270MHz		15810	43.63	-30.37	74	40.9	40.67	19.77	57.71	100	0	P	V
													V
													V
		10620	42.73	-31.27	74	47.75	37.44	17.17	59.63	100	0	P	H
		15930	44.08	-29.92	74	41.06	40.82	19.84	57.64	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	42.58	-31.42	74	47.6	37.44	17.17	59.63	100	0	P	V
5310MHz		15930	43.65	-30.35	74	40.63	40.82	19.84	57.64	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5463.92	49.94	-24.06	74	38.24	35.05	11.89	35.24	300	303	P	H
		5466.64	42.13	-11.87	54	30.43	35.05	11.89	35.24	300	303	A	H
	*	5500	98.67	-	-	86.92	35.1	11.89	35.24	300	303	P	H
	*	5500	90.89	-	-	79.14	35.1	11.89	35.24	300	303	A	H
													H
													H
		5463.28	53.67	-20.33	74	41.97	35.05	11.89	35.24	180	224	P	V
		5467.76	46.35	-7.65	54	34.65	35.05	11.89	35.24	180	224	A	V
	*	5500	106.04	-	-	94.29	35.1	11.89	35.24	180	224	P	V
	*	5500	98.16	-	-	86.41	35.1	11.89	35.24	180	224	A	V
													V
													V
802.11a CH 116 5580MHz		5470	49.48	-24.52	74	37.78	35.05	11.89	35.24	303	311	P	H
		5469.36	41.32	-12.68	54	29.62	35.05	11.89	35.24	303	311	A	H
	*	5580	97.58	-	-	85.81	35.14	11.89	35.26	303	311	P	H
	*	5580	90.29	-	-	78.52	35.14	11.89	35.26	303	311	A	H
		5729.8	50.98	-23.02	74	38.97	35.23	12.06	35.28	303	311	P	H
		5750.2	41.79	-12.21	54	29.73	35.24	12.11	35.29	303	311	A	H
		5407.44	50.54	-23.46	74	38.93	34.96	11.89	35.24	200	241	P	V
		5469.68	42.55	-11.45	54	30.85	35.05	11.89	35.24	200	241	A	V
	*	5580	105.74	-	-	93.97	35.14	11.89	35.26	200	241	P	V
	*	5580	98.43	-	-	86.66	35.14	11.89	35.26	200	241	A	V
		5762.36	52	-22	74	39.93	35.26	12.11	35.3	200	241	P	V
		5732.12	42.67	-11.33	54	30.67	35.23	12.06	35.29	200	241	A	V

802.11a CH 140 5700MHz	*	5700	98.04	-	-	86.11	35.21	12	35.28	265	312	P	H
	*	5700	90.43	-	-	78.5	35.21	12	35.28	265	312	A	H
		5727.48	51.02	-22.98	74	39.01	35.23	12.06	35.28	265	312	P	H
		5726.6	42.47	-11.53	54	30.46	35.23	12.06	35.28	265	312	A	H
													H
													H
	*	5700	105.77	-	-	93.84	35.21	12	35.28	186	235	P	V
	*	5700	98.25	-	-	86.32	35.21	12	35.28	186	235	A	V
		5728.12	53.04	-20.96	74	41.03	35.23	12.06	35.28	186	235	P	V
		5725	45.63	-8.37	54	33.62	35.23	12.06	35.28	186	235	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	43.09	-30.91	74	47.12	37.9	17.17	59.1	100	0	P	H
		16500	44.69	-29.31	74	39.86	41.4	20.23	56.8	100	0	P	H
													H
													H
		11000	42.71	-31.29	74	46.74	37.9	17.17	59.1	100	0	P	V
		16500	45.65	-28.35	74	40.82	41.4	20.23	56.8	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	43.95	-30.05	74	47.46	38	17.16	58.67	100	0	P	H
		16740	46.51	-27.49	74	40.85	41.88	20.39	56.61	100	0	P	H
													H
													H
		11160	42.41	-31.59	74	45.92	38	17.16	58.67	100	0	P	V
		16740	47.16	-26.84	74	41.5	41.88	20.39	56.61	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	43.58	-30.42	74	46.34	38.14	17.16	58.06	100	0	P	H
		17100	46.9	-27.1	74	40.39	42.32	20.65	56.46	100	0	P	H
													H
													H
		11400	43.57	-30.43	74	46.33	38.14	17.16	58.06	100	0	P	V
		17100	47.48	-26.52	74	40.97	42.32	20.65	56.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5450.64	49.94	-24.06	74	38.26	35.03	11.89	35.24	300	302	P	H
		5468.56	41.73	-12.27	54	30.03	35.05	11.89	35.24	300	302	A	H
	*	5500	96.35	-	-	84.6	35.1	11.89	35.24	300	302	P	H
	*	5500	87.88	-	-	76.13	35.1	11.89	35.24	300	302	A	H
802.11n													H
HT20													H
CH 100		5468.24	51.52	-22.48	74	39.82	35.05	11.89	35.24	198	227	P	V
5500MHz		5469.52	44.12	-9.88	54	32.42	35.05	11.89	35.24	198	227	A	V
	*	5500	103.89	-	-	92.14	35.1	11.89	35.24	198	227	P	V
	*	5500	95.43	-	-	83.68	35.1	11.89	35.24	198	227	A	V
													V
													V
		5393.84	50.28	-23.72	74	38.68	34.94	11.89	35.23	289	311	P	H
		5456.88	41.21	-12.79	54	29.53	35.03	11.89	35.24	289	311	A	H
	*	5580	95.33	-	-	83.56	35.14	11.89	35.26	289	311	P	H
	*	5580	87.56	-	-	75.79	35.14	11.89	35.26	289	311	A	H
802.11n		5762.36	51.14	-22.86	74	39.07	35.26	12.11	35.3	289	311	P	H
HT20		5748.76	41.77	-12.23	54	29.71	35.24	12.11	35.29	289	311	A	H
CH 116		5390.64	49.75	-24.25	74	38.15	34.94	11.89	35.23	200	239	P	V
5580MHz		5469.36	41.95	-12.05	54	30.25	35.05	11.89	35.24	200	239	A	V
	*	5580	104.29	-	-	92.52	35.14	11.89	35.26	200	239	P	V
	*	5580	95.54	-	-	83.77	35.14	11.89	35.26	200	239	A	V
		5746.92	50.33	-23.67	74	38.27	35.24	12.11	35.29	200	239	P	V
		5732.28	42.38	-11.62	54	30.38	35.23	12.06	35.29	200	239	A	V

	*	5700	96.19	-	-	84.26	35.21	12	35.28	266	312	P	H
	*	5700	87.67	-	-	75.74	35.21	12	35.28	266	312	A	H
		5762.2	50.46	-23.54	74	38.39	35.26	12.11	35.3	266	312	P	H
		5725.08	42.36	-11.64	54	30.35	35.23	12.06	35.28	266	312	A	H
802.11n													H
HT20													H
CH 140	*	5700	104.13	-	-	92.2	35.21	12	35.28	187	240	P	V
5700MHz	*	5700	95.46	-	-	83.53	35.21	12	35.28	187	240	A	V
		5725.8	54.14	-19.86	74	42.13	35.23	12.06	35.28	187	240	P	V
		5746.76	46.35	-7.65	54	34.29	35.24	12.11	35.29	187	240	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	42.98	-31.02	74	47.01	37.9	17.17	59.1	100	0	P	H
		16500	45.39	-28.61	74	40.56	41.4	20.23	56.8	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	43.06	-30.94	74	47.09	37.9	17.17	59.1	100	0	P	V
5500MHz		16500	45.31	-28.69	74	40.48	41.4	20.23	56.8	100	0	P	V
													V
													V
		11160	42.61	-31.39	74	46.12	38	17.16	58.67	100	0	P	H
		16740	48.03	-25.97	74	42.37	41.88	20.39	56.61	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	43.45	-30.55	74	46.96	38	17.16	58.67	100	0	P	V
5580MHz		16740	45.99	-28.01	74	40.33	41.88	20.39	56.61	100	0	P	V
													V
													V
		11400	43	-31	74	45.76	38.14	17.16	58.06	100	0	P	H
		17100	46.42	-27.58	74	39.91	42.32	20.65	56.46	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	42.56	-31.44	74	45.32	38.14	17.16	58.06	100	0	P	V
5700MHz		17100	48.25	-25.75	74	41.74	42.32	20.65	56.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5436.4	49.85	-24.15	74	38.19	35.01	11.89	35.24	300	312	P	H
		5469.36	43.21	-10.79	54	31.51	35.05	11.89	35.24	300	312	A	H
	*	5510	92.06	-	-	80.32	35.1	11.89	35.25	300	312	P	H
	*	5510	84.06	-	-	72.32	35.1	11.89	35.25	300	312	A	H
802.11n		5738.28	50.11	-23.89	74	38.1	35.24	12.06	35.29	300	312	P	H
HT40		5761.32	42.23	-11.77	54	30.16	35.26	12.11	35.3	300	312	A	H
CH 102		5467.28	56.81	-17.19	74	45.11	35.05	11.89	35.24	197	233	P	V
5510MHz		5469.84	49.05	-4.95	54	37.35	35.05	11.89	35.24	197	233	A	V
	*	5510	101.34	-	-	89.6	35.1	11.89	35.25	197	233	P	V
	*	5510	92.7	-	-	80.96	35.1	11.89	35.25	197	233	A	V
		5732.84	49.87	-24.13	74	37.87	35.23	12.06	35.29	197	233	P	V
		5758.28	42.5	-11.5	54	30.43	35.26	12.11	35.3	197	233	A	V
		5465.2	50.57	-23.43	74	38.87	35.05	11.89	35.24	270	323	P	H
		5462.48	42.07	-11.93	54	30.39	35.03	11.89	35.24	270	323	A	H
	*	5550	93.45	-	-	81.68	35.13	11.89	35.25	270	323	P	H
	*	5550	85.61	-	-	73.84	35.13	11.89	35.25	270	323	A	H
802.11n		5760.04	50.42	-23.58	74	38.35	35.26	12.11	35.3	270	323	P	H
HT40		5741.64	42.41	-11.59	54	30.35	35.24	12.11	35.29	270	323	A	H
CH 110		5425.2	50.11	-23.89	74	38.48	34.98	11.89	35.24	195	238	P	V
5550MHz		5466.32	43.02	-10.98	54	31.32	35.05	11.89	35.24	195	238	A	V
	*	5550	101.73	-	-	89.96	35.13	11.89	35.25	195	238	P	V
	*	5550	93.17	-	-	81.4	35.13	11.89	35.25	195	238	A	V
		5734.52	50.42	-23.58	74	38.41	35.24	12.06	35.29	195	238	P	V
		5726.76	42.7	-11.3	54	30.69	35.23	12.06	35.28	195	238	A	V

		5442	49.35	-24.65	74	37.69	35.01	11.89	35.24	311	311	P	H
		5443.76	41.92	-12.08	54	30.26	35.01	11.89	35.24	311	311	A	H
	*	5670	93.43	-	-	81.51	35.2	12	35.28	311	311	P	H
	*	5670	84.82	-	-	72.9	35.2	12	35.28	311	311	A	H
802.11n		5761.96	49.89	-24.11	74	37.82	35.26	12.11	35.3	311	311	P	H
HT40		5725.4	42.58	-11.42	54	30.57	35.23	12.06	35.28	311	311	A	H
CH 134		5454.8	50.36	-23.64	74	38.68	35.03	11.89	35.24	200	236	P	V
5670MHz		5465.36	42.12	-11.88	54	30.42	35.05	11.89	35.24	200	236	A	V
	*	5670	101.92	-	-	90	35.2	12	35.28	200	236	P	V
	*	5670	92.24	-	-	80.32	35.2	12	35.28	200	236	A	V
		5731.64	52.08	-21.92	74	40.08	35.23	12.06	35.29	200	236	P	V
		5725.24	44.03	-9.97	54	32.02	35.23	12.06	35.28	200	236	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	43.33	-30.67	74	47.31	37.91	17.17	59.06	100	0	P	H
		16530	45.94	-28.06	74	40.99	41.47	20.25	56.77	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	43.39	-30.61	74	47.37	37.91	17.17	59.06	100	0	P	V
5510MHz		16530	45.49	-28.51	74	40.54	41.47	20.25	56.77	100	0	P	V
													V
													V
		11100	42.11	-31.89	74	45.83	37.96	17.16	58.84	100	0	P	H
		16650	44.9	-29.1	74	39.53	41.71	20.34	56.68	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	42.57	-31.43	74	46.29	37.96	17.16	58.84	100	0	P	V
5550MHz		16650	45.53	-28.47	74	40.16	41.71	20.34	56.68	100	0	P	V
													V
													V
		11340	42.57	-31.43	74	45.54	38.1	17.16	58.23	100	0	P	H
		17010	46.75	-27.25	74	40.18	42.39	20.59	56.41	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	43.92	-30.08	74	46.89	38.1	17.16	58.23	100	0	P	V
5670MHz		17010	46.15	-27.85	74	39.58	42.39	20.59	56.41	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30.27	26.95	-13.05	40	31.38	26	1.07	31.5	100	0	P	H
		156.63	26.06	-17.44	43.5	38.24	17.21	1.78	31.17			P	H
		277.59	23.16	-22.84	46	32.44	19.33	2.32	30.93			P	H
		878.2	31.61	-14.39	46	28.91	28.87	4.17	30.34			P	H
		936.3	31.9	-14.1	46	28.28	29.87	4.12	30.37			P	H
		944.7	32.04	-13.96	46	28.28	30.08	4.07	30.39			P	H
													H
													H
													H
													H
													H
802.11a													H
LF		30.81	30.27	-9.73	40	35.2	25.46	1.07	31.46	100	0	P	V
		192.27	22.52	-20.98	43.5	36.15	15.6	1.87	31.1			P	V
		261.39	21.53	-24.47	46	30.33	19.88	2.32	31			P	V
		829.2	31.27	-14.73	46	29.24	28.29	4.1	30.36			P	V
		906.2	31.65	-14.35	46	28.7	29.14	4.12	30.31			P	V
		950.3	32.02	-13.98	46	28.15	30.2	4.07	30.4			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30	26.42	-13.58	40	30.85	26	1.07	31.5			P	H
		159.6	25.82	-17.68	43.5	38.24	17	1.78	31.2			P	H
		271.65	23.48	-22.52	46	32.76	19.38	2.32	30.98			P	H
		871.9	31.2	-14.8	46	28.55	28.83	4.17	30.35			P	H
		922.3	31.79	-14.21	46	28.47	29.54	4.12	30.34			P	H
		942.6	33.42	-12.58	46	29.69	30.04	4.07	30.38	100	0	P	H
													H
													H
													H
													H
													H
													H
		30.54	36.11	-3.89	40	41.04	25.46	1.07	31.46	100	0	P	V
		159.06	20.41	-23.09	43.5	32.75	17.07	1.78	31.19			P	V
		264.09	20.87	-25.13	46	29.79	19.76	2.32	31			P	V
		861.4	31.53	-14.47	46	28.97	28.77	4.17	30.38			P	V
		923	31.91	-14.09	46	28.58	29.56	4.12	30.35			P	V
		955.2	31.59	-14.41	46	27.69	30.21	4.07	30.38			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		30.54	26.17	-13.83	40	31.1	25.46	1.07	31.46	100	0	P	H
		157.98	26.05	-17.45	43.5	38.31	17.14	1.78	31.18			P	H
		276.78	23.63	-22.37	46	32.91	19.34	2.32	30.94			P	H
		883.8	31.1	-14.9	46	28.36	28.9	4.17	30.33			P	H
		898.5	31.74	-14.26	46	28.88	28.99	4.17	30.3			P	H
		945.4	32.04	-13.96	46	28.25	30.11	4.07	30.39			P	H
													H
													H
													H
													H
													H
													H
		30	30.79	-9.21	40	35.22	26	1.07	31.5	100	0	P	V
		166.62	20.27	-23.23	43.5	33.33	16.3	1.78	31.14			P	V
		298.11	22.47	-23.53	46	31.39	19.78	2.32	31.02			P	V
		920.2	31.95	-14.05	46	28.68	29.49	4.12	30.34			P	V
		945.4	32.01	-13.99	46	28.22	30.11	4.07	30.39			P	V
		958	32.3	-13.7	46	28.38	30.22	4.07	30.37			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)

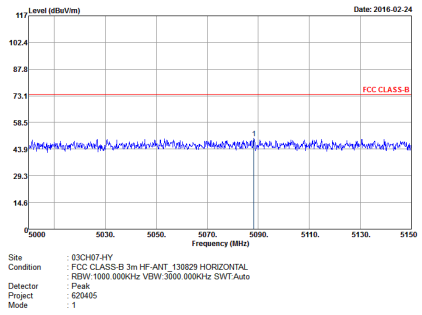
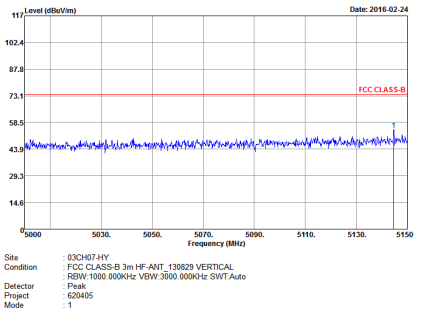
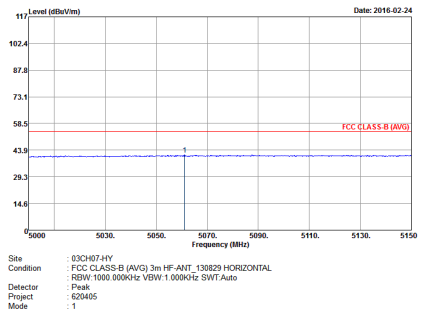
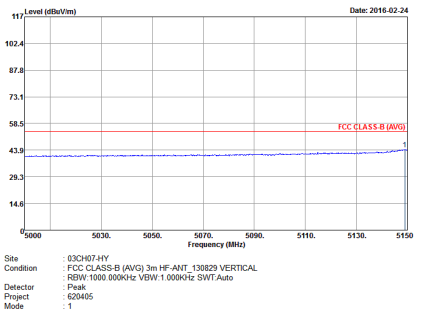
Both peak and average measured complies with the limit line, so test result is "PASS".

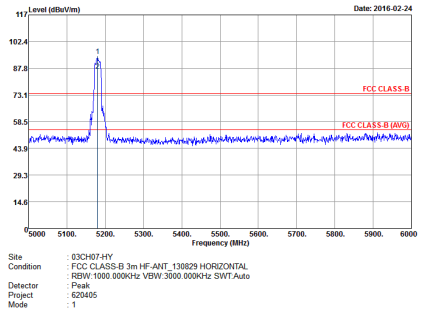
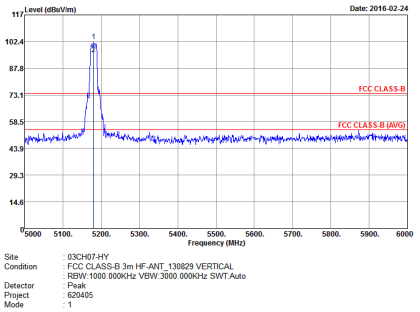
Appendix C. Radiated Spurious Emission

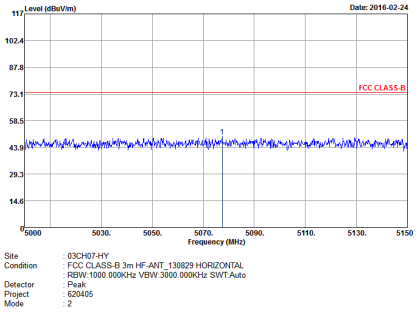
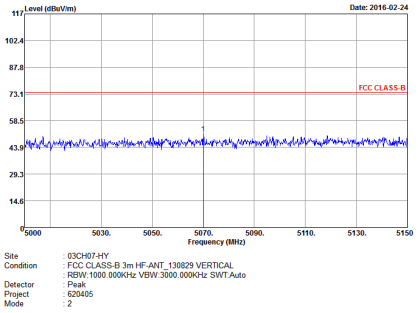
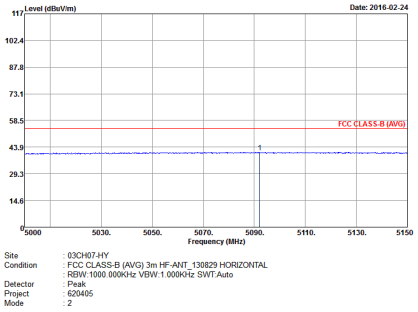
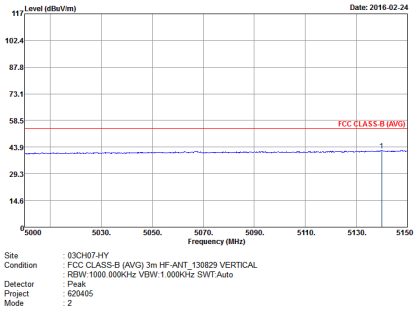
Test Engineer :	Ken Wu, James Chiu, and Jesse Wang	**Temperature :**	21~24°C
		Relative Humidity :	50~54%

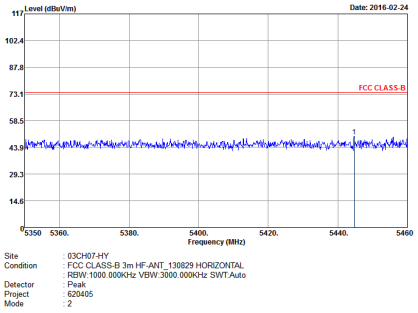
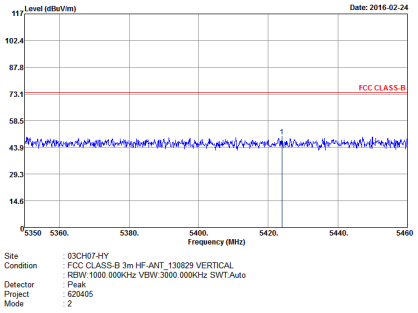
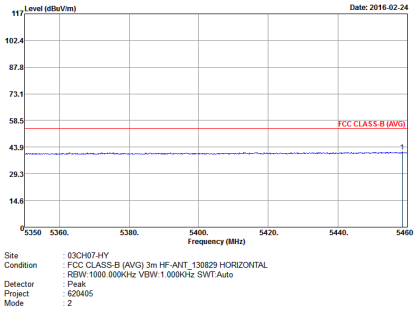
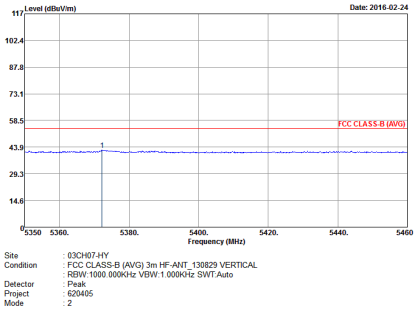
Band 1 - 5150~5250MHz

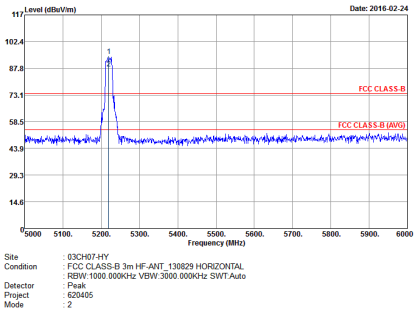
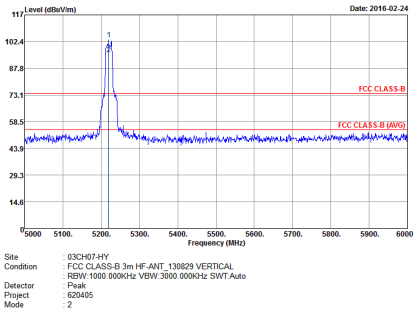
WIFI 802.11a (Band Edge @ 3m)

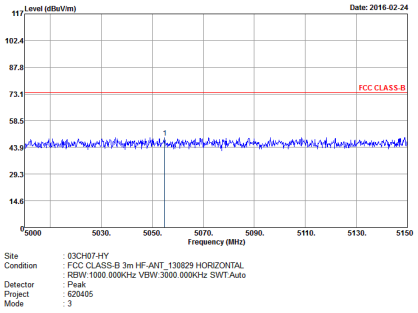
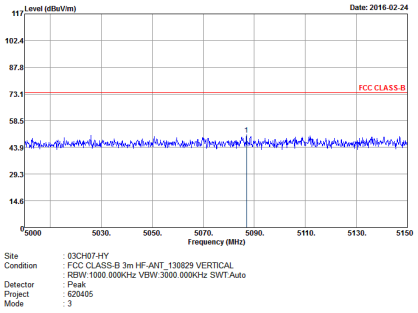
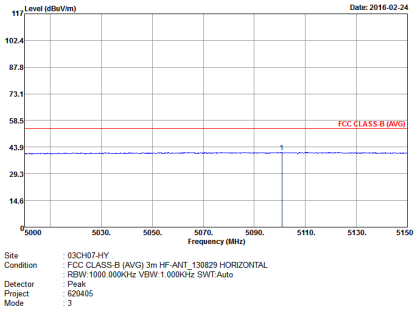
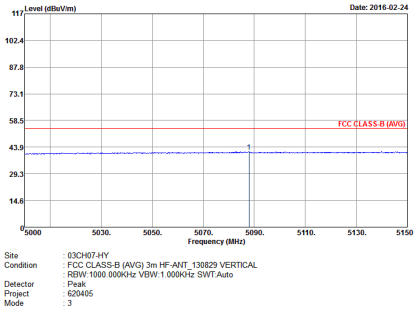
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak		
Avg.		

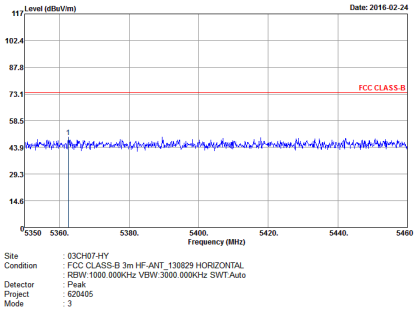
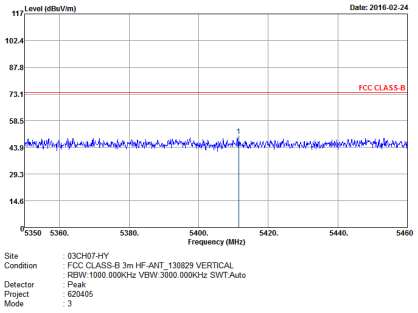
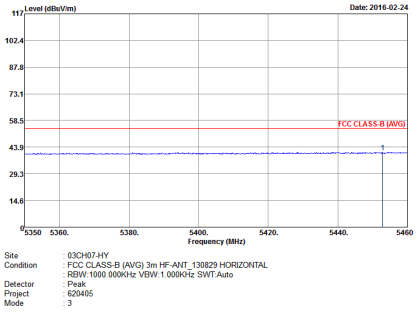
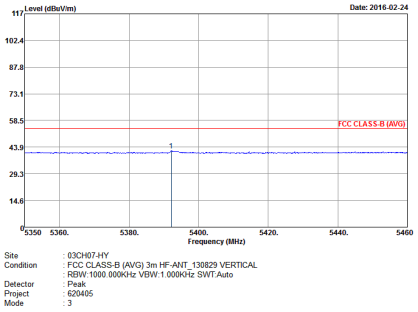
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

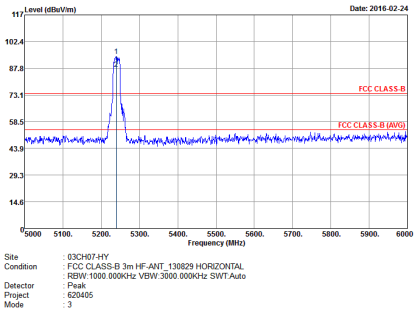
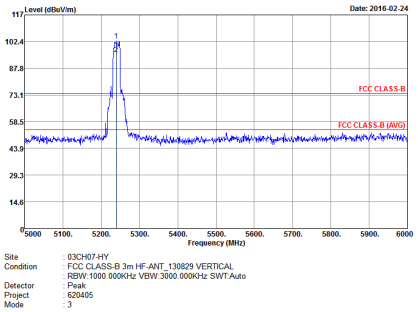
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

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

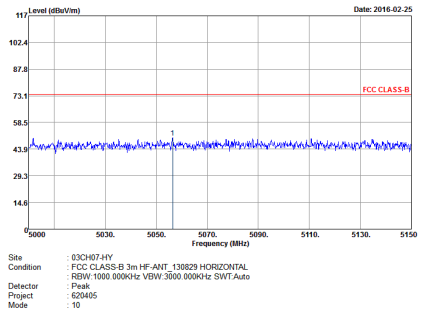
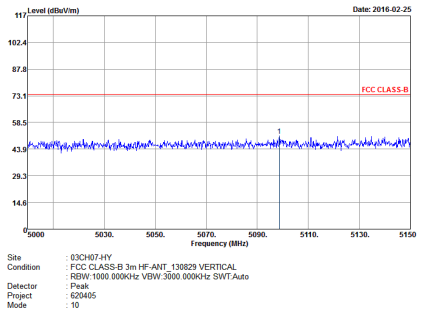
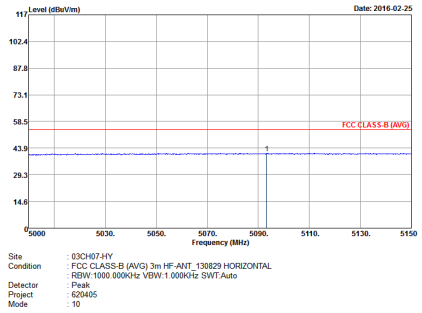
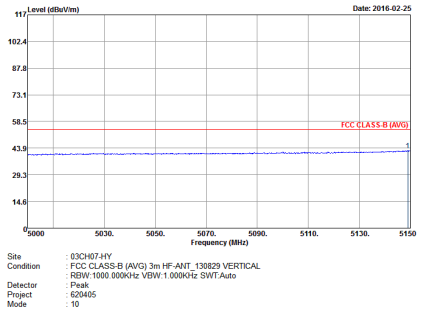
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

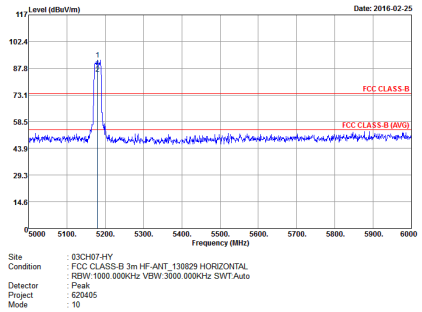
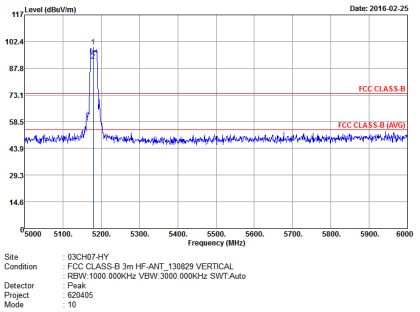
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

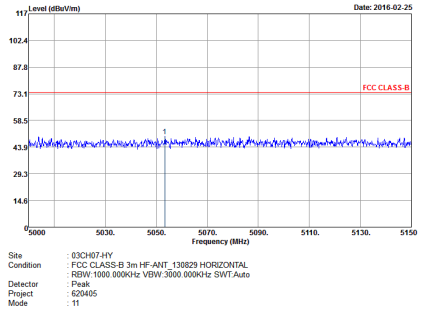
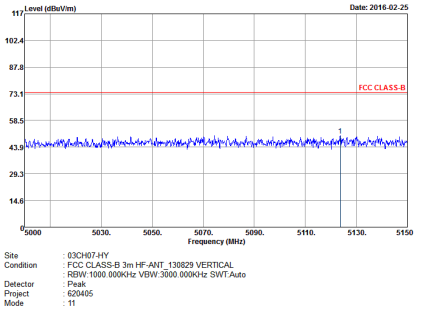
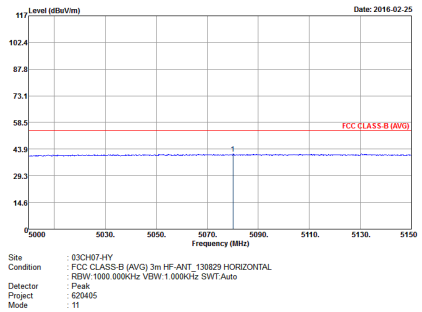
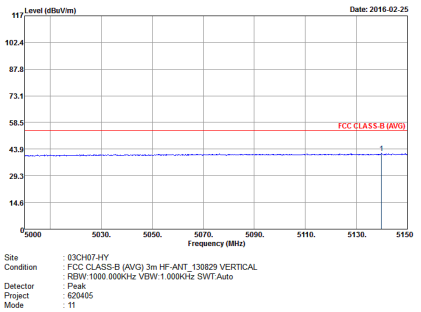
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

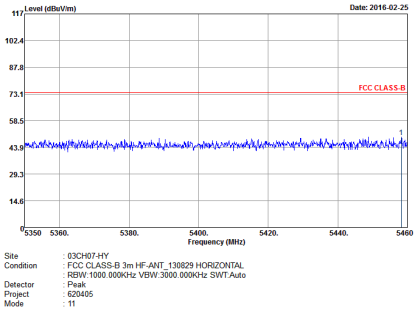
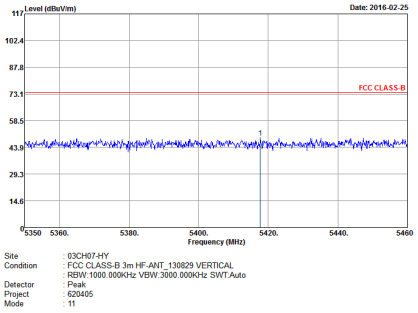
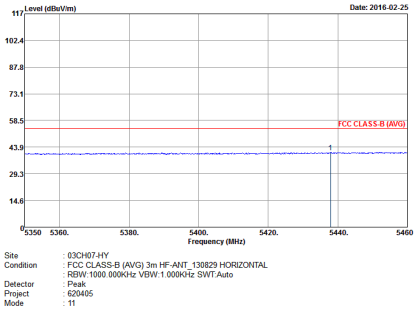
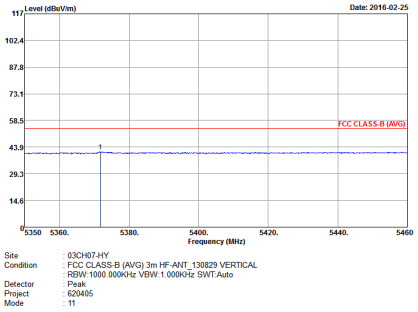
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

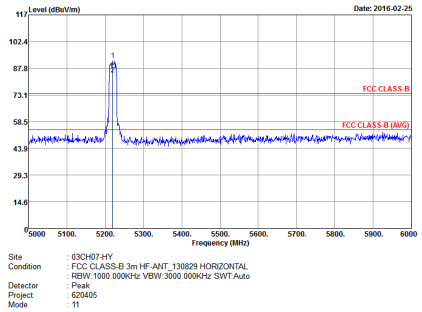
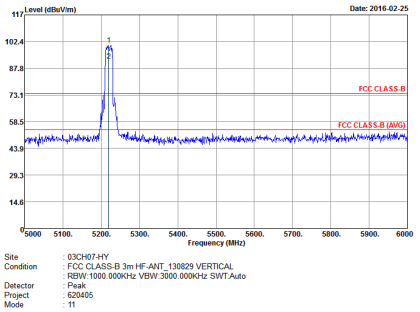
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

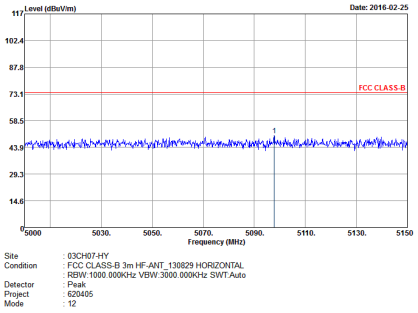
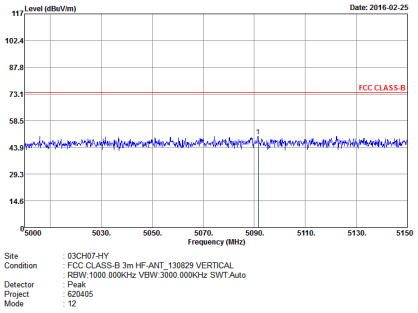
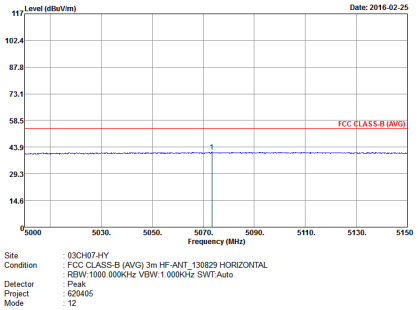
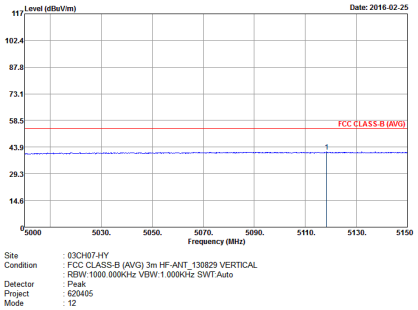
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak		
Avg.		

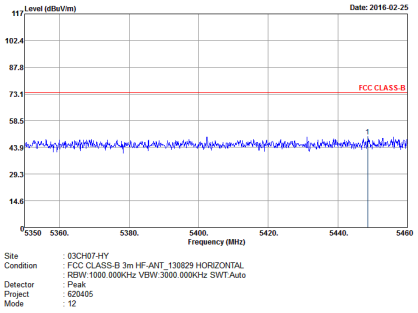
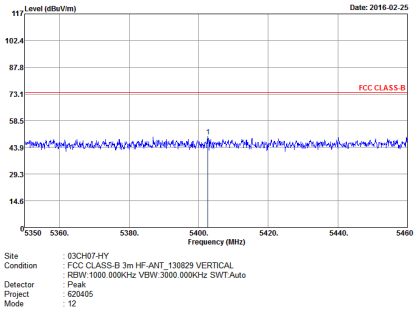
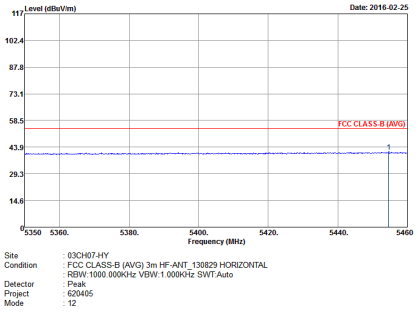
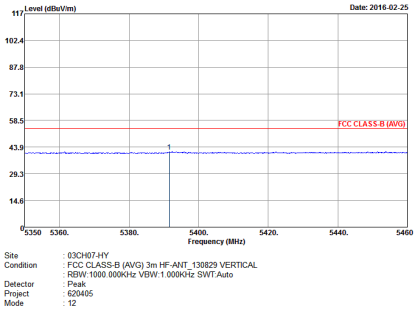
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

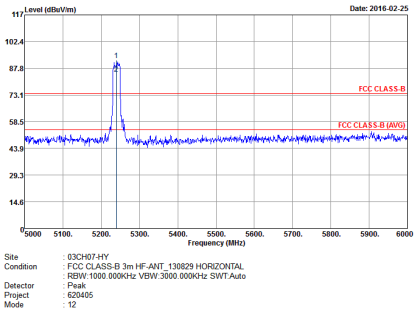
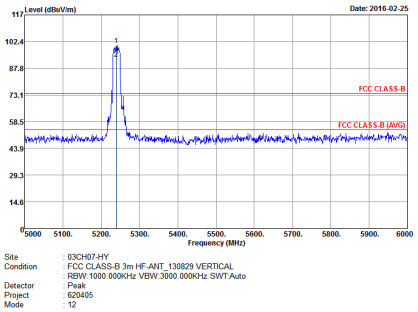
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

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

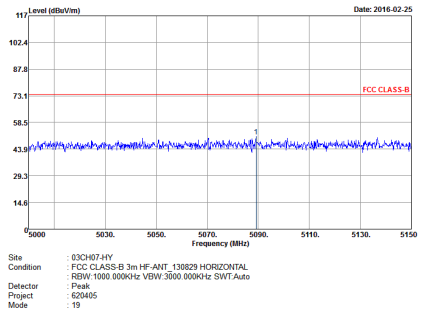
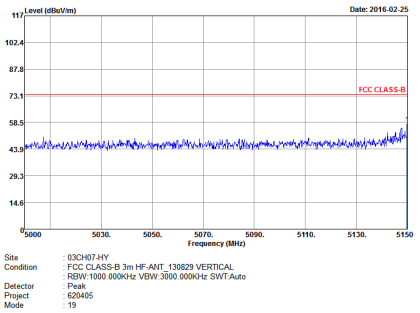
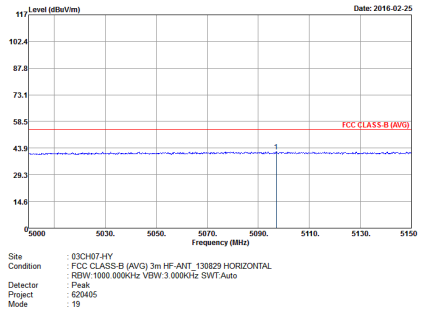
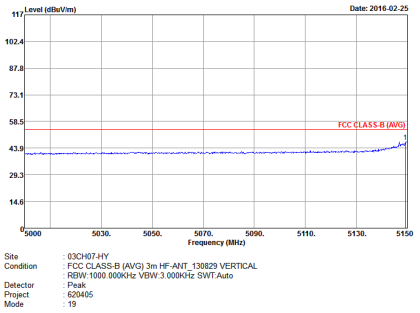
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

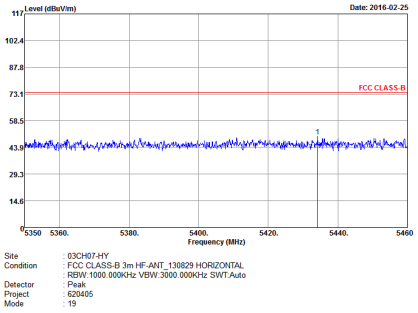
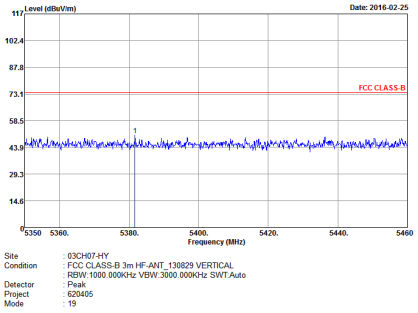
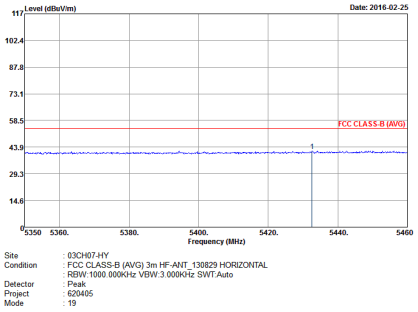
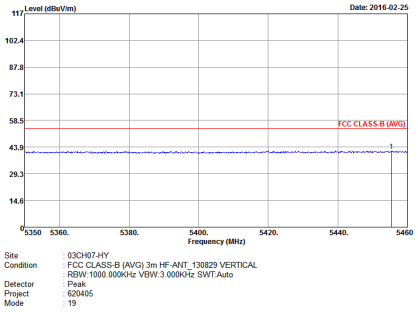
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

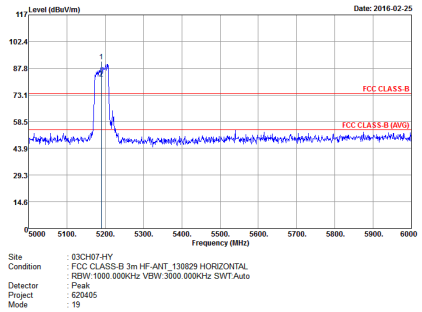
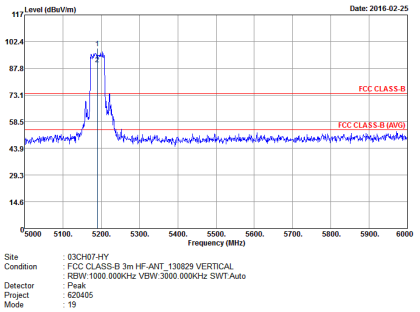
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

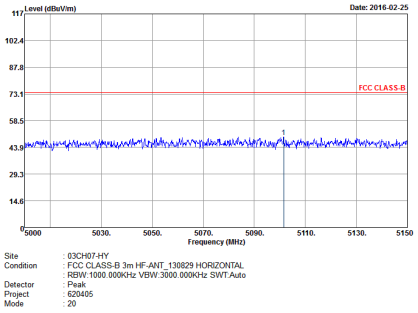
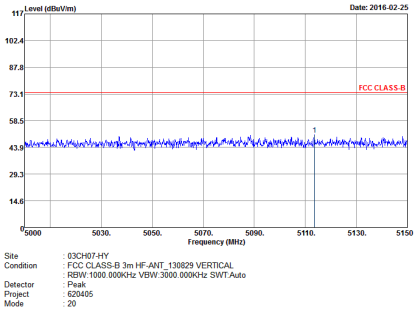
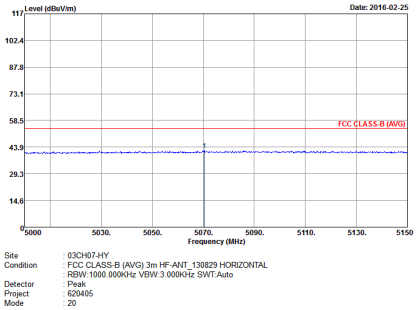
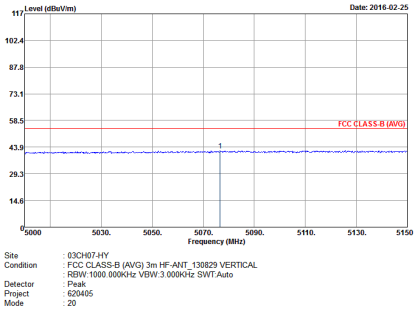
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

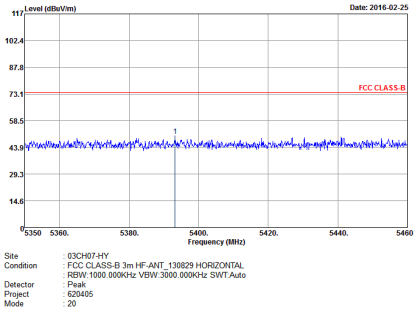
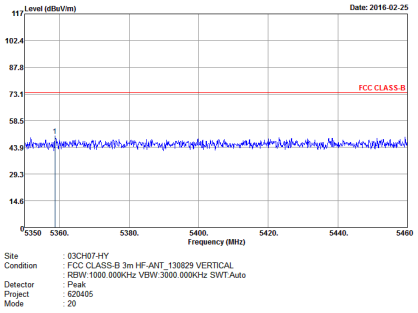
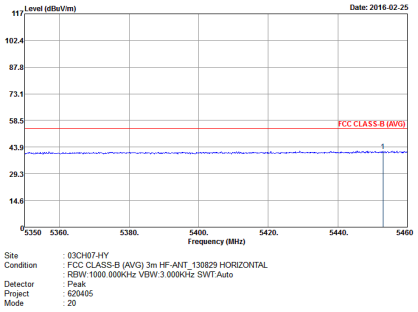
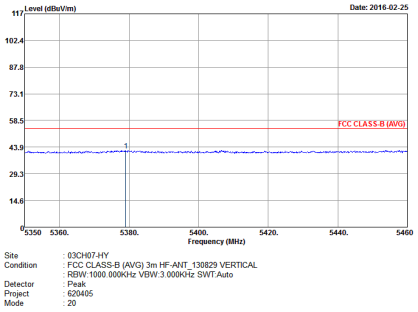
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

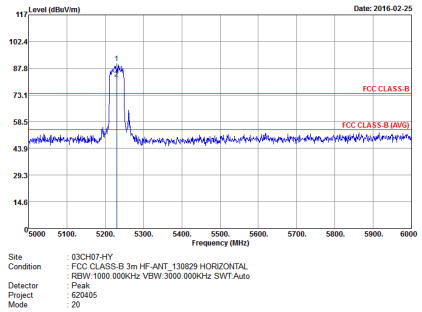
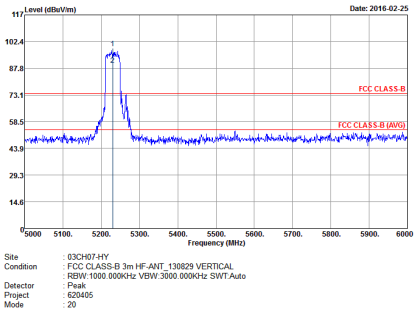
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

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

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

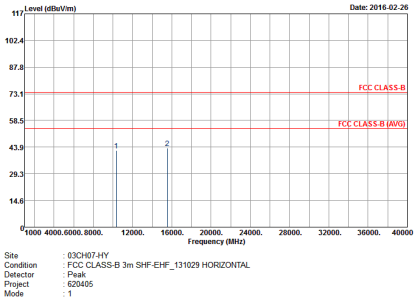
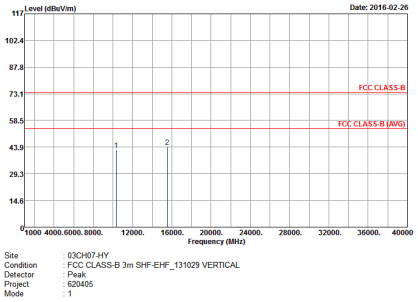
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

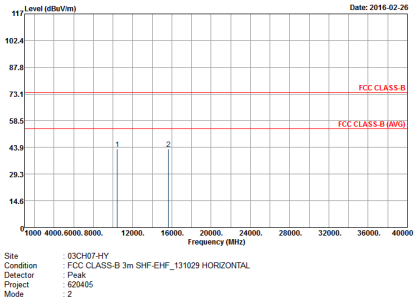
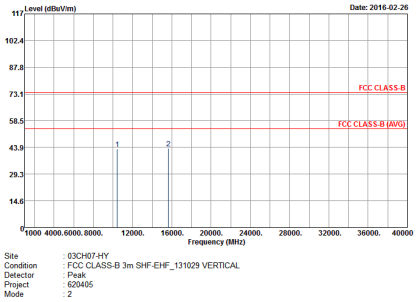
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

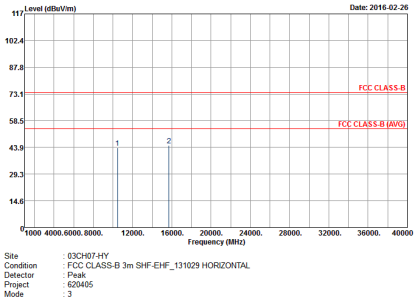
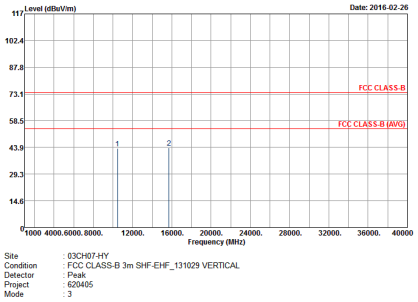
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg		

Band 1 - 5150~5250MHz

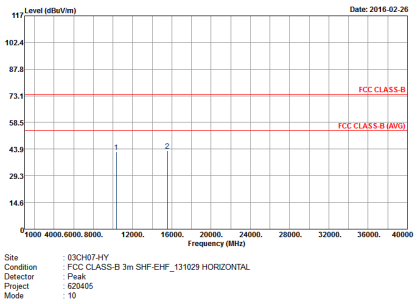
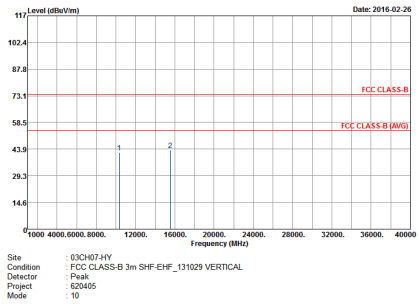
WIFI 802.11a (Harmonic @ 3m)

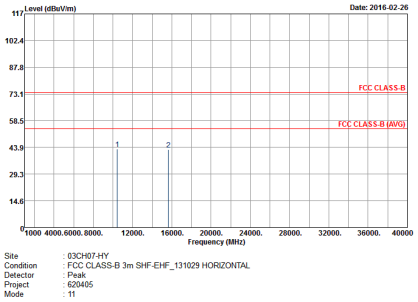
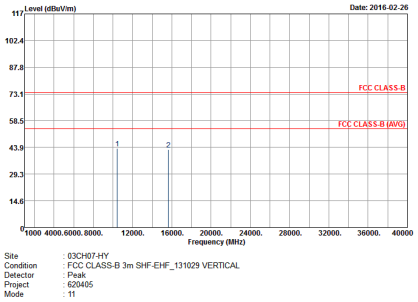
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

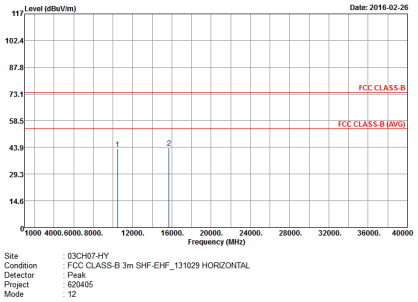
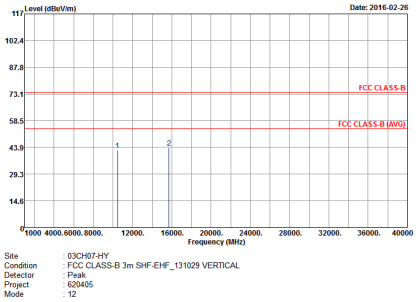
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

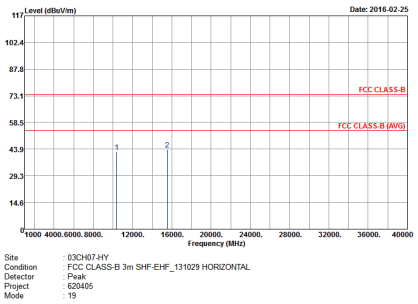
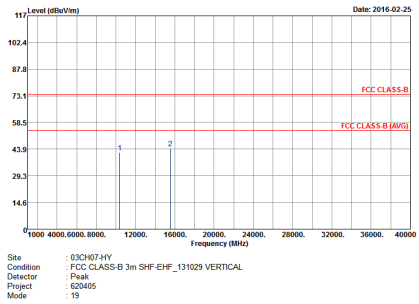
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

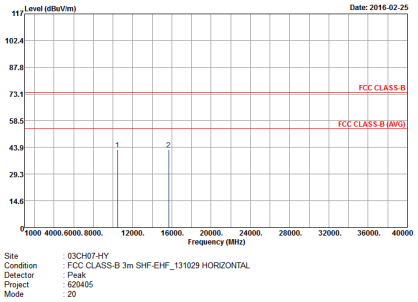
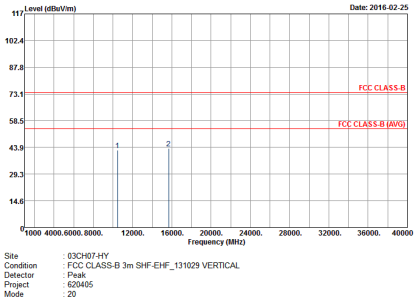
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

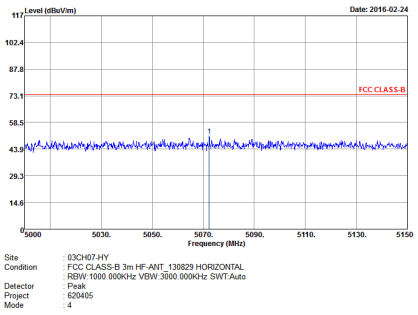
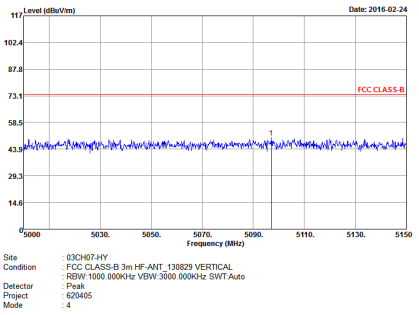
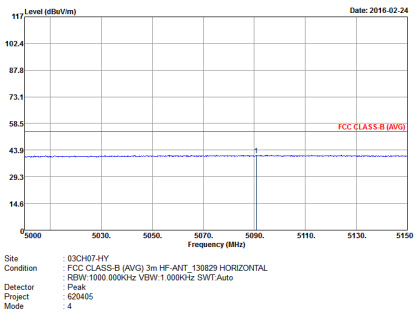
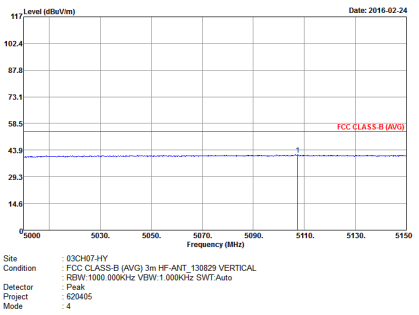
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

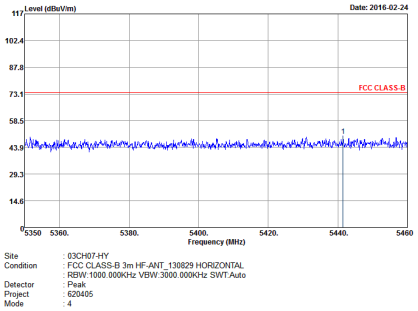
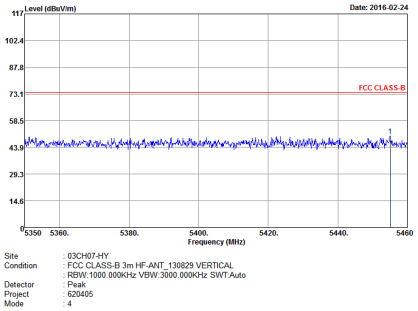
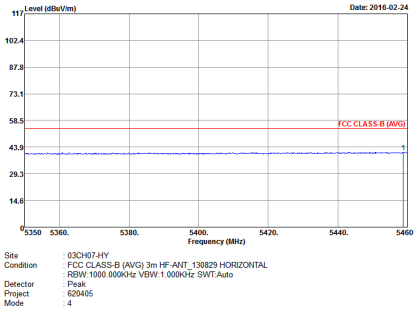
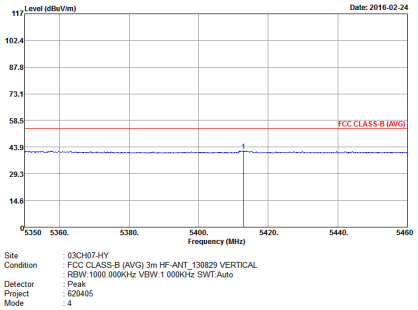
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

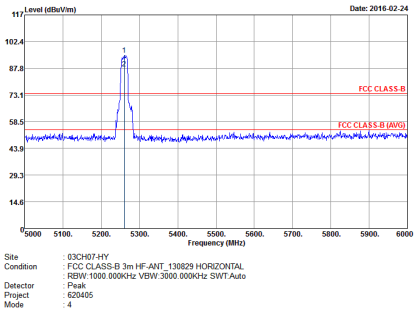
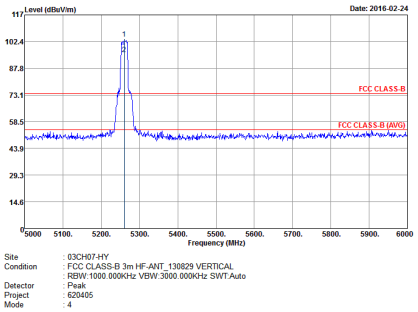
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

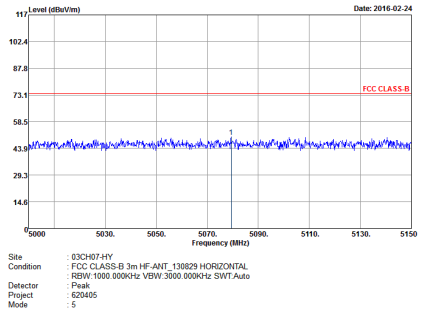
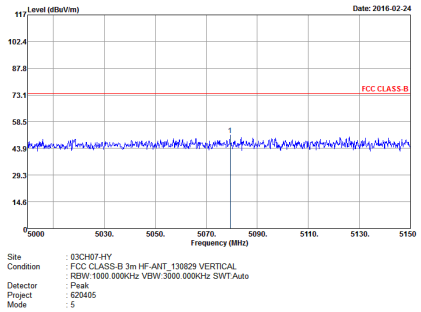
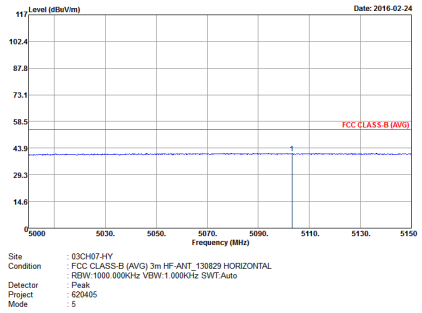
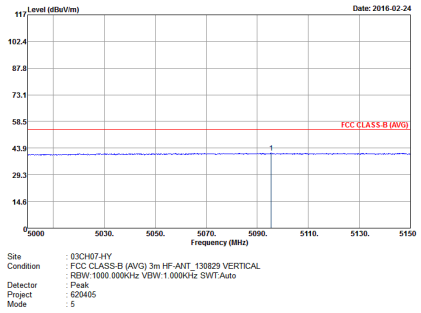
Band 2 - 5250~5350MHz

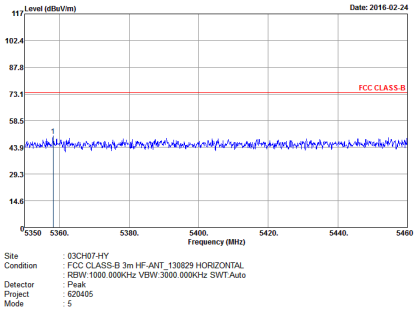
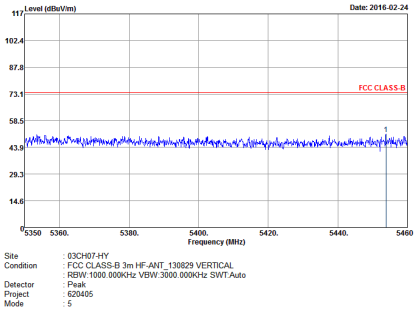
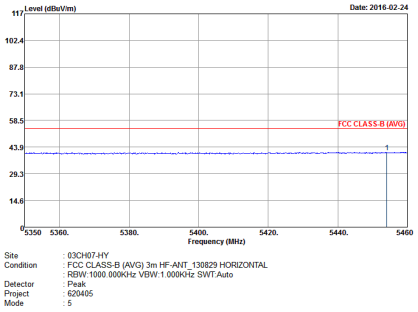
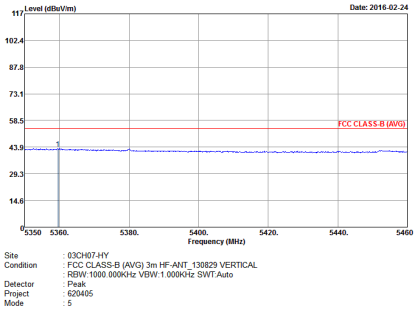
WIFI 802.11a (Band Edge @ 3m)

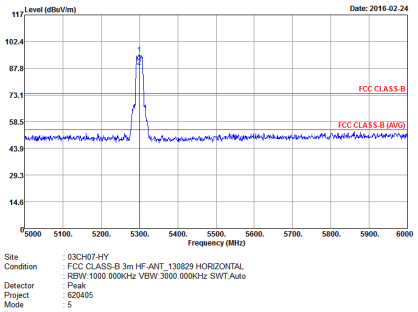
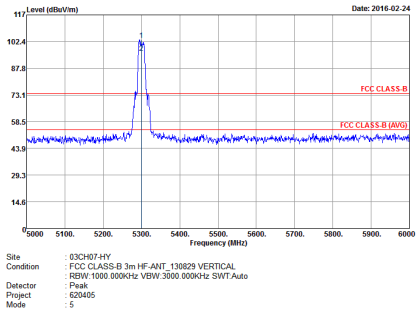
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

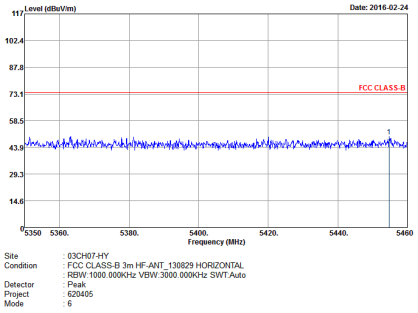
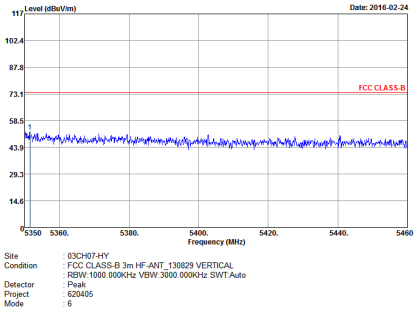
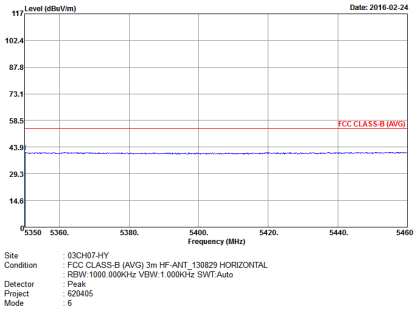
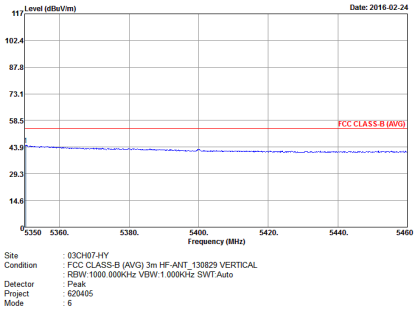
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

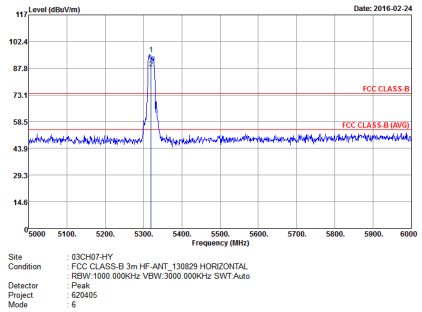
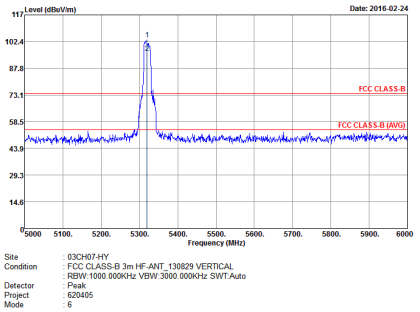
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

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

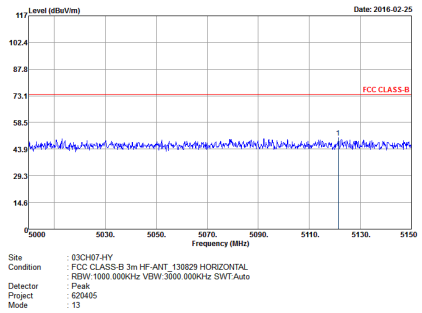
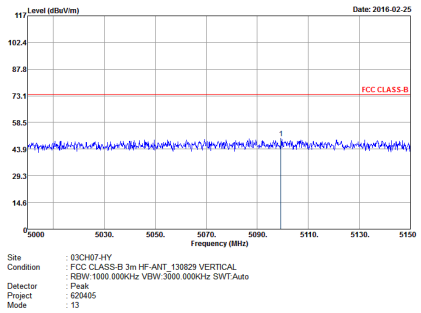
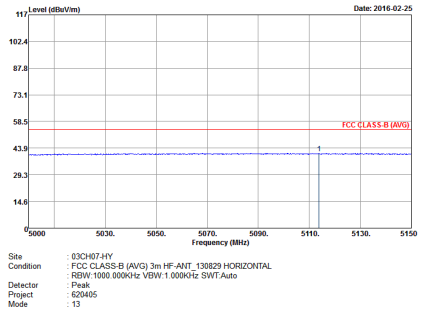
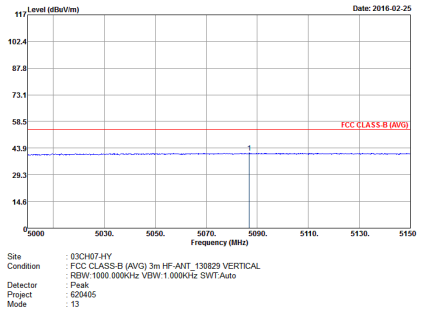
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

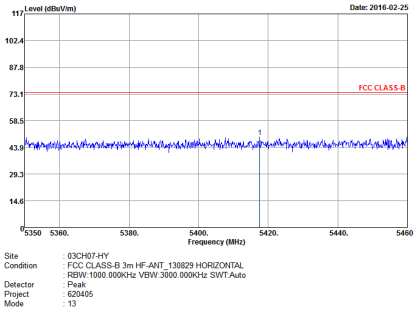
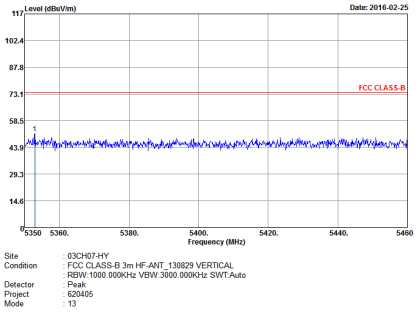
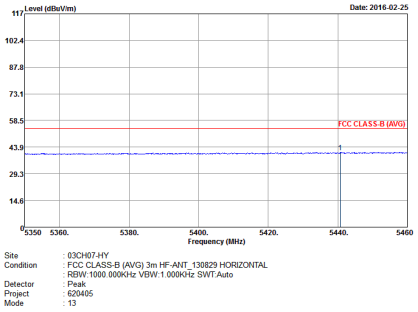
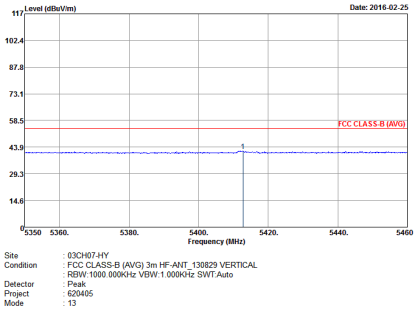
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

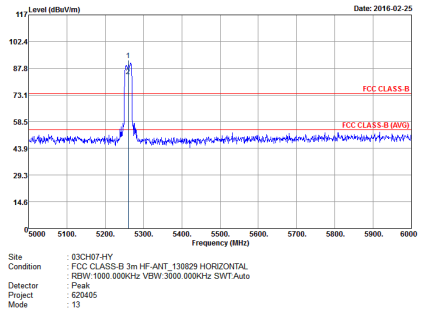
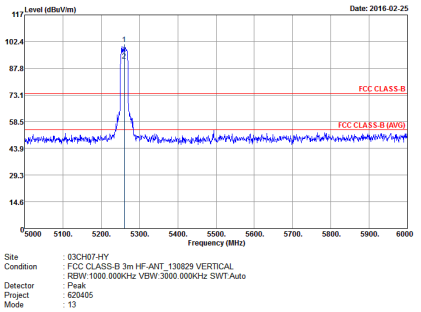
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak		
Avg.		

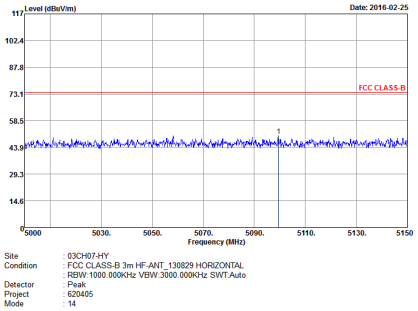
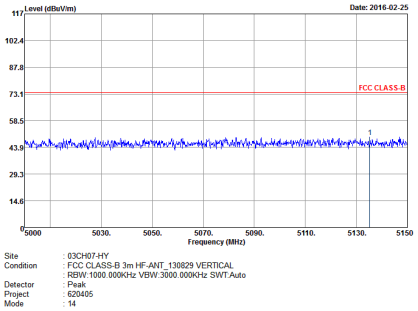
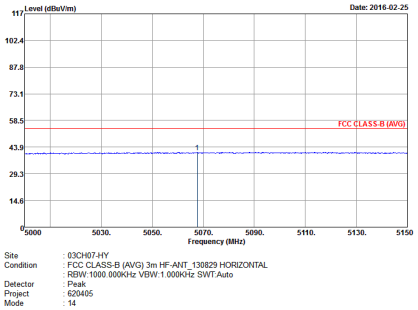
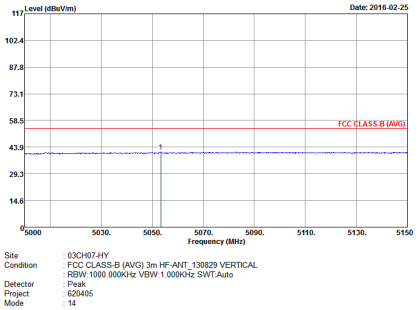
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

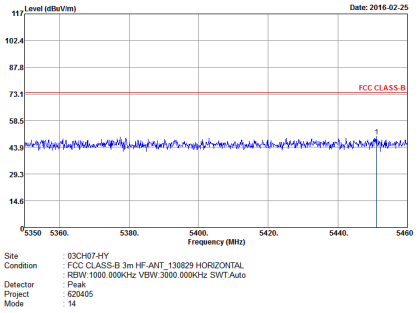
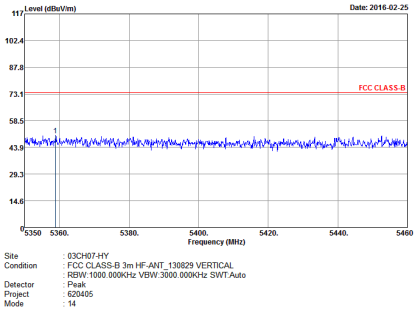
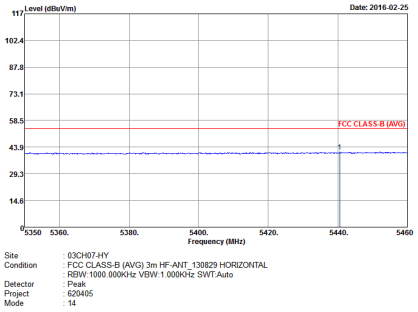
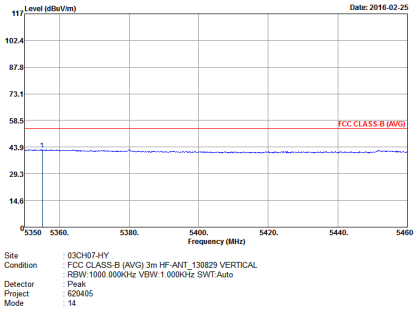
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

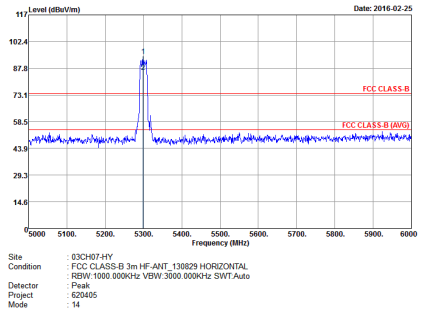
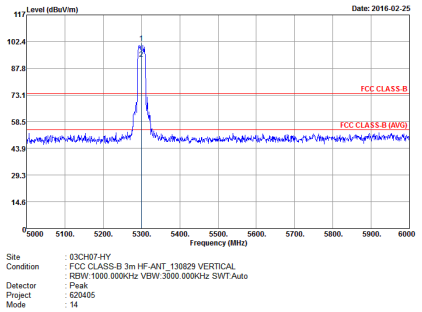
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

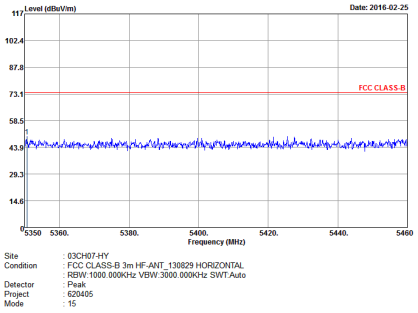
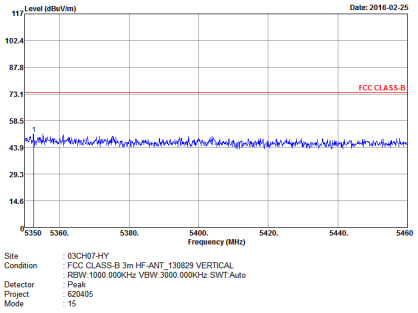
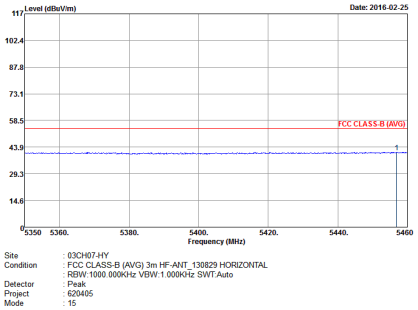
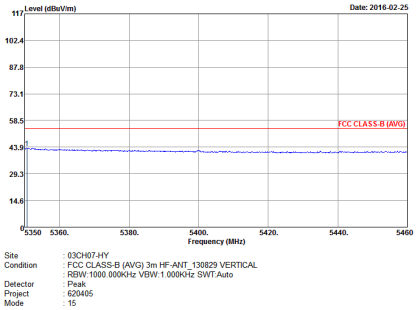
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

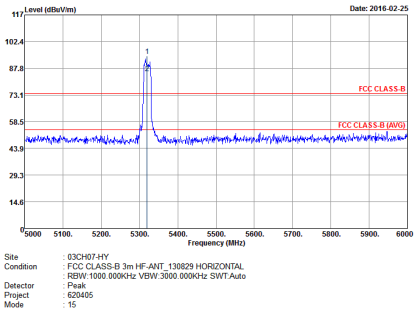
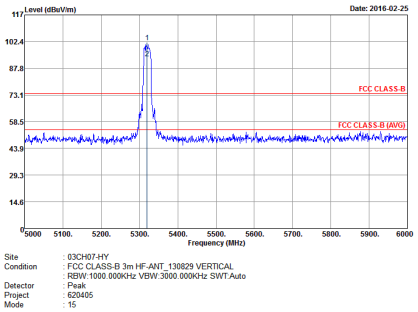
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg		

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

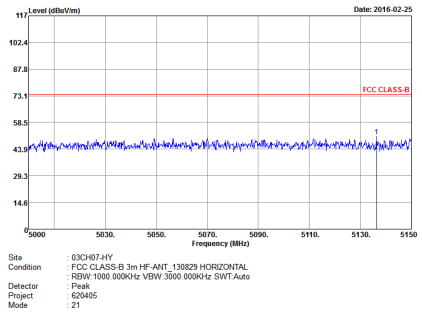
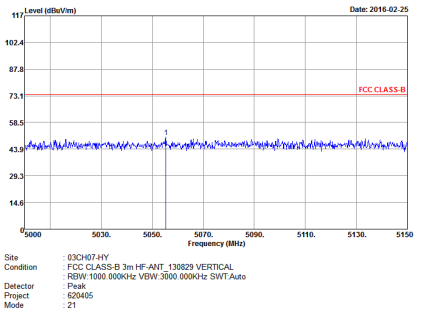
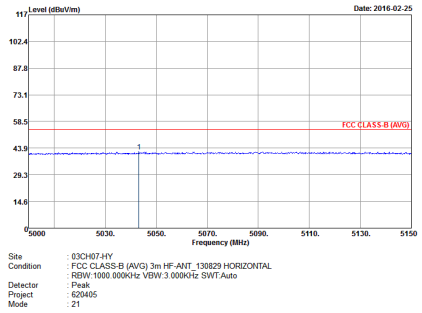
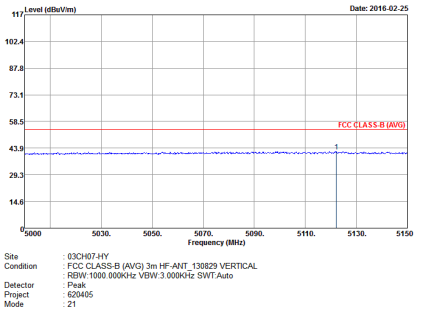
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

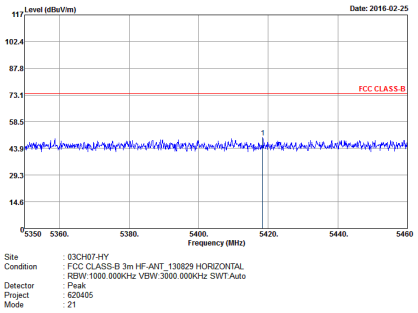
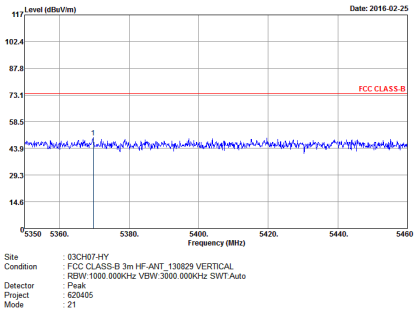
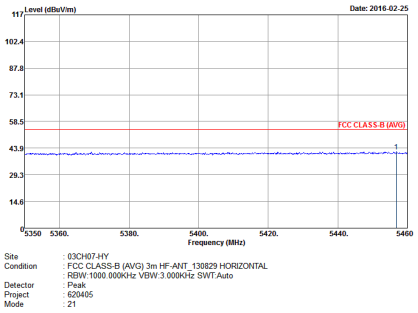
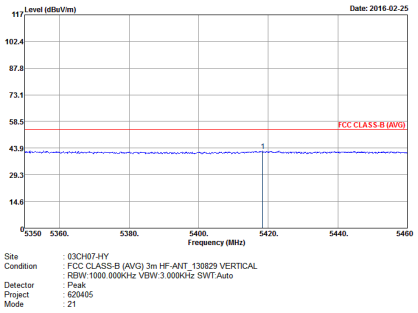
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg		

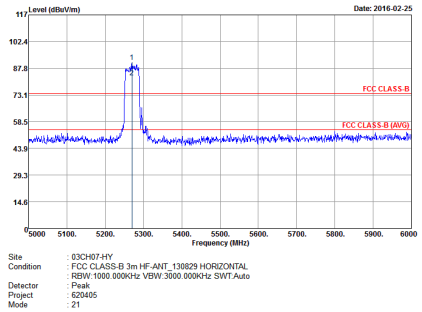
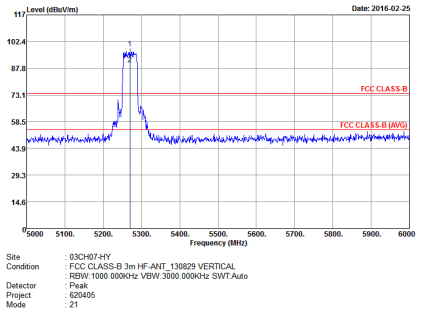
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak		
Avg.		

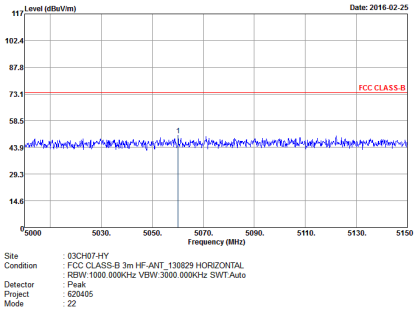
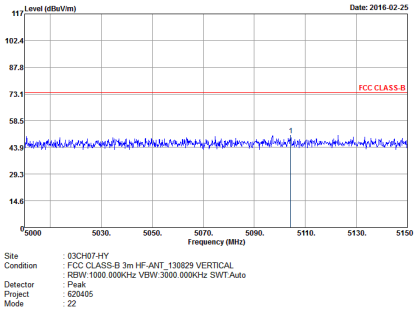
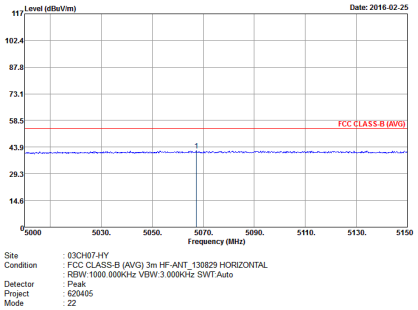
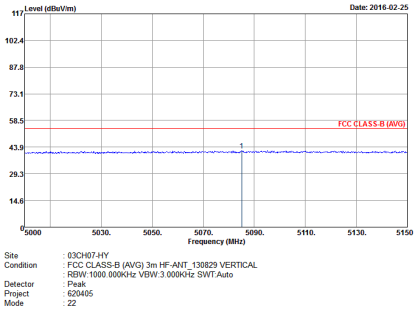
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

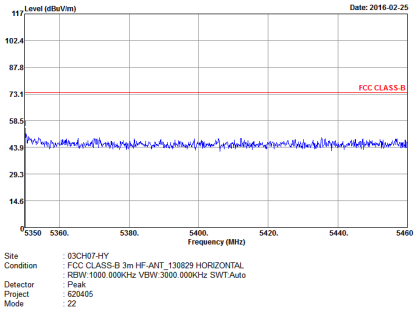
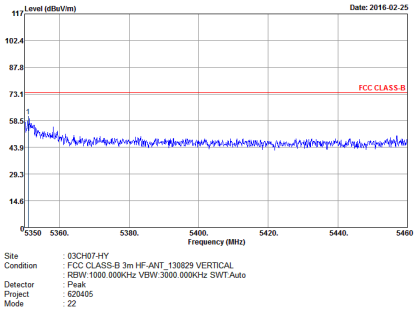
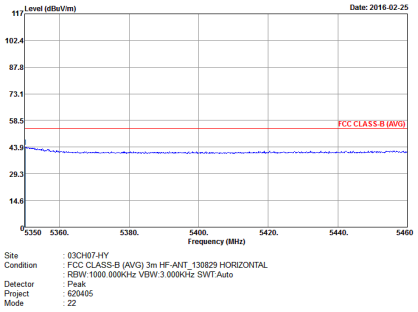
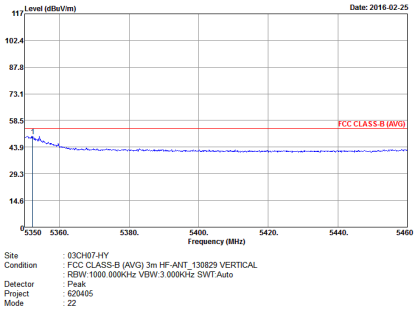
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

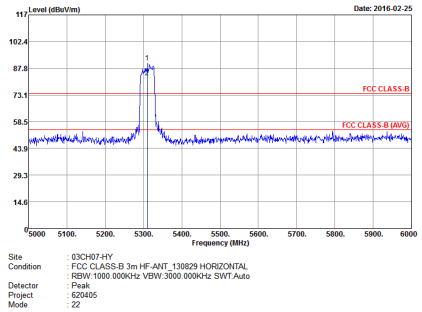
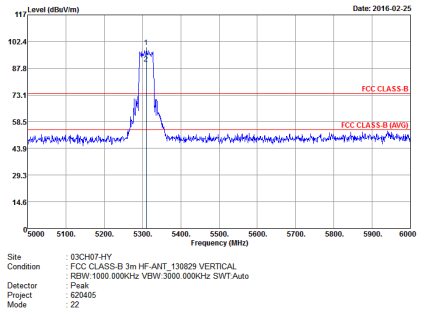
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Vertical
Peak		
Avg.		

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

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

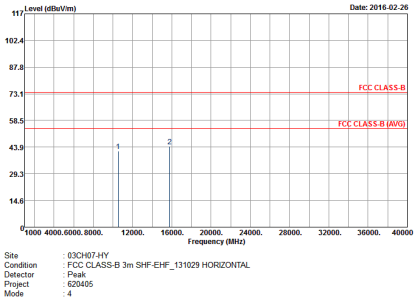
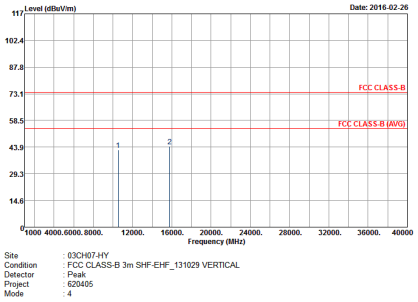
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Vertical
Peak		
Avg.		

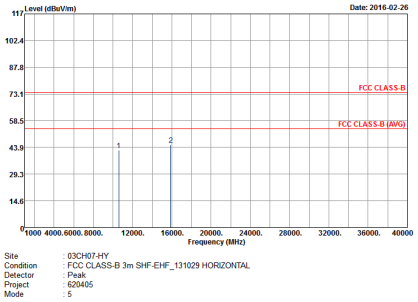
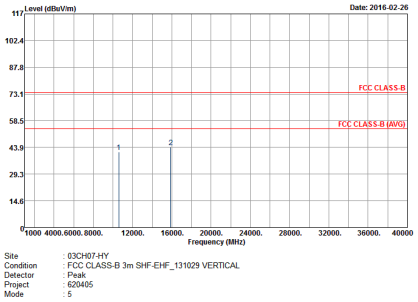
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 620405 Mode : 22	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 620405 Mode : 22
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 620405 Mode : 22	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 620405 Mode : 22

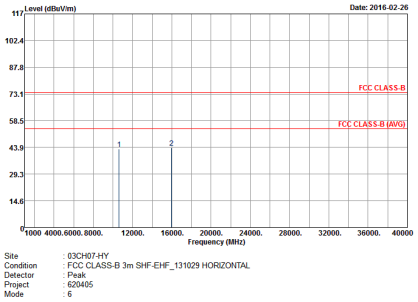
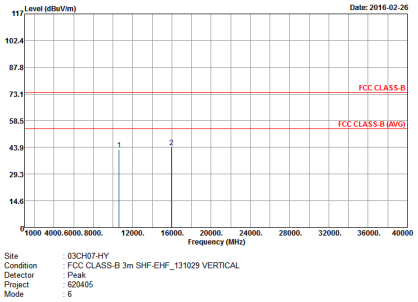
WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

Band 2 - 5250~5350MHz

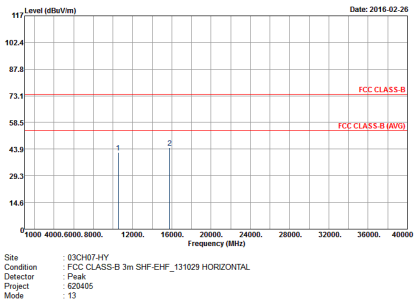
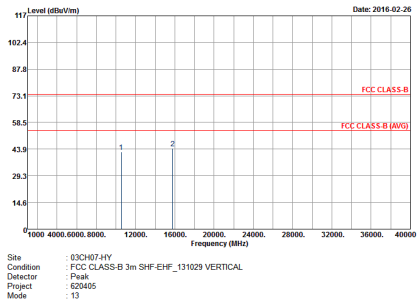
WIFI 802.11a (Harmonic @ 3m)

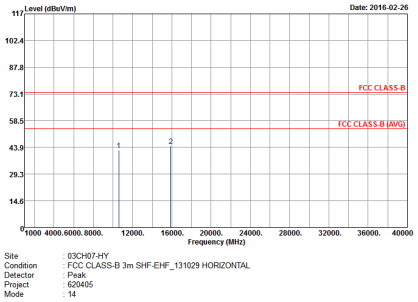
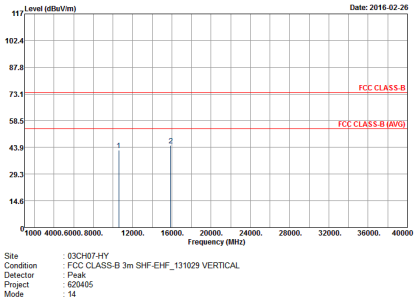
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

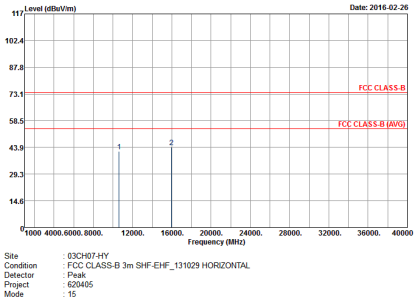
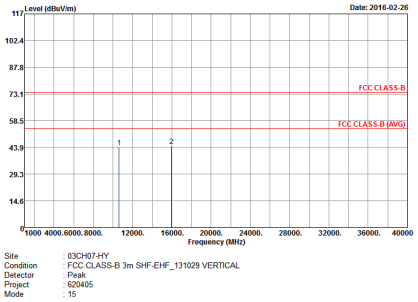
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

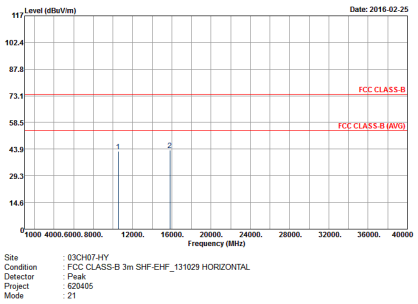
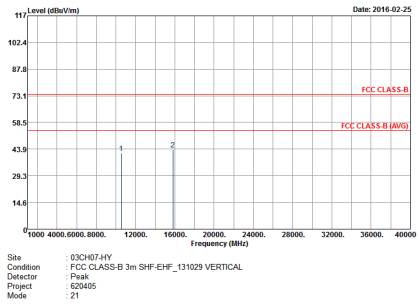
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

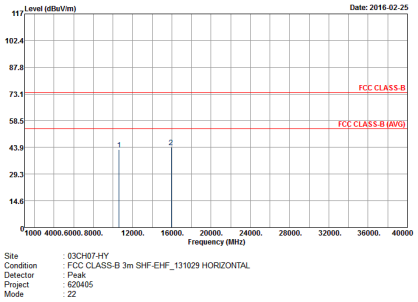
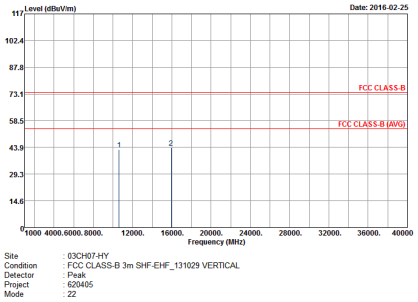
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 2 5250~5350MHz

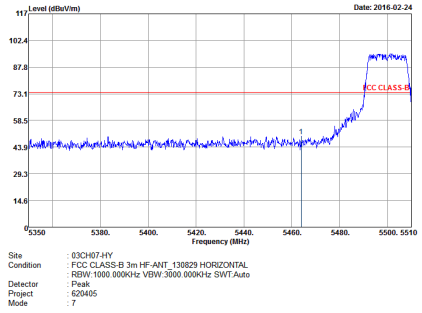
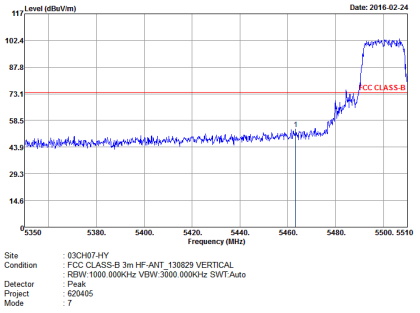
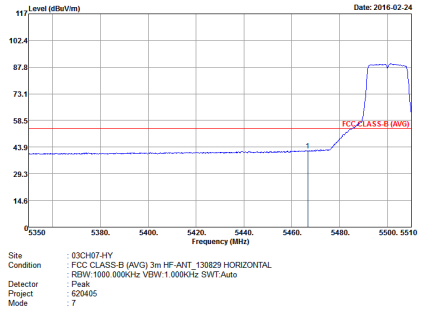
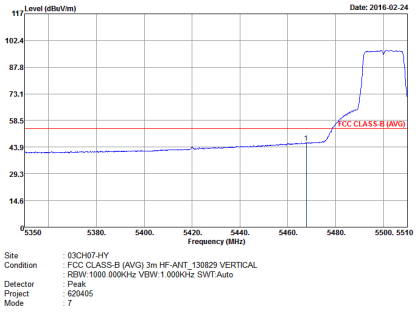
WIFI 802.11n HT40 (Harmonic @ 3m)

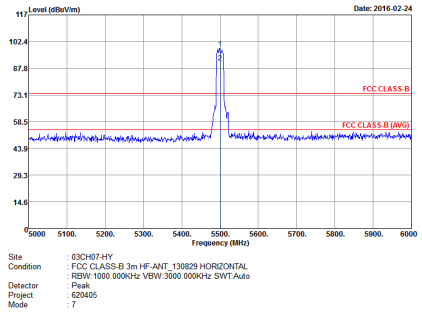
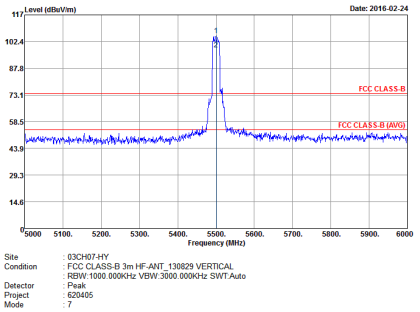
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

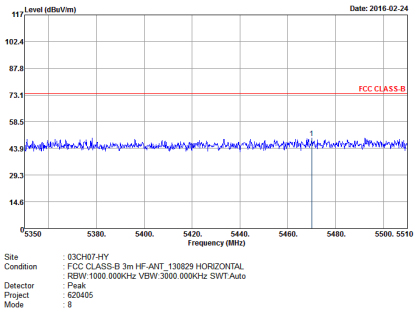
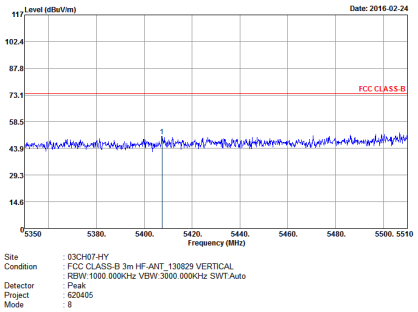
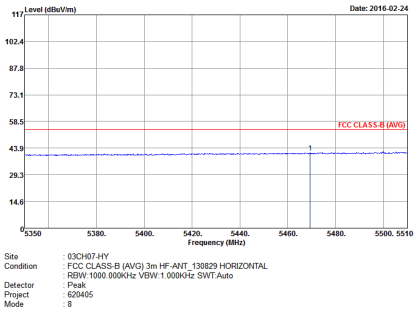
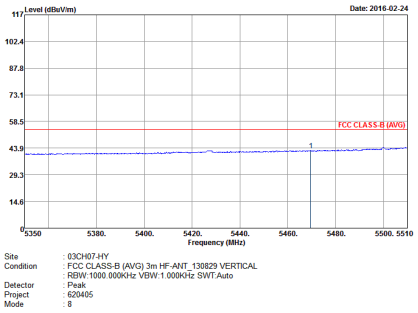
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

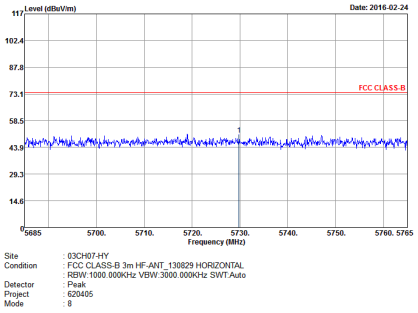
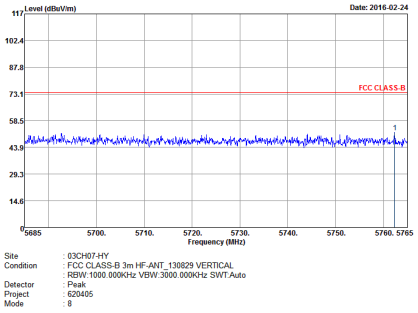
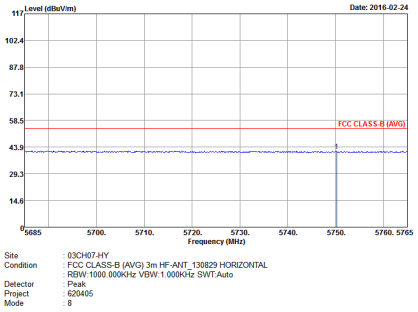
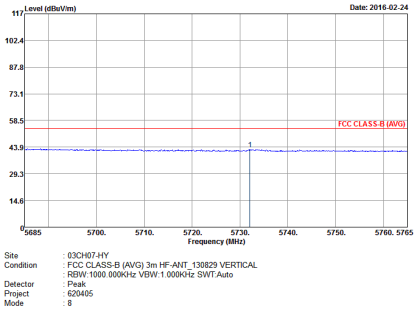
Band 3 - 5470~5725MHz

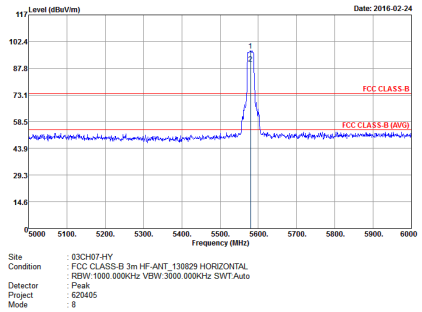
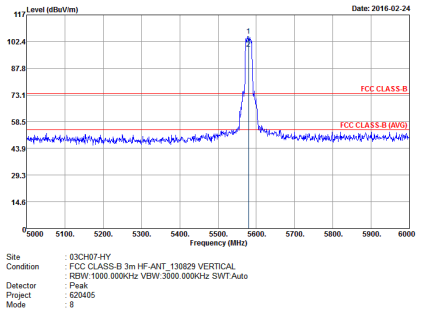
WIFI 802.11a (Band Edge @ 3m)

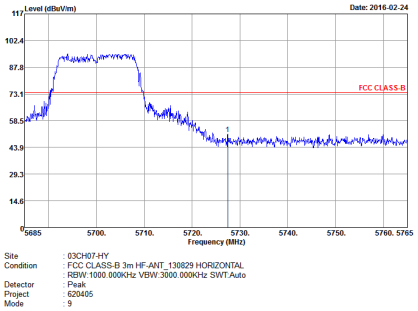
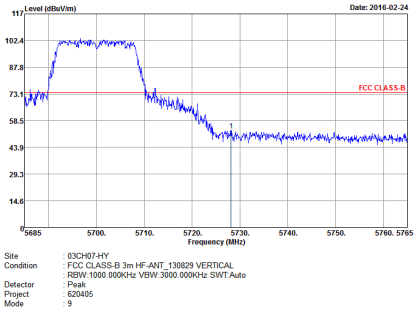
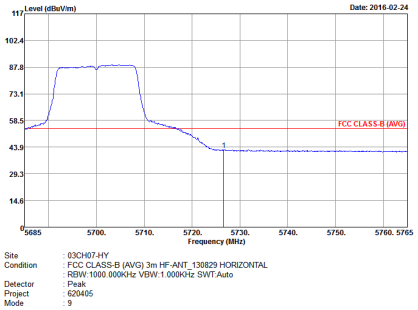
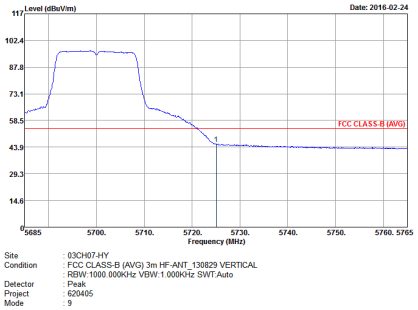
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak		
Avg.		

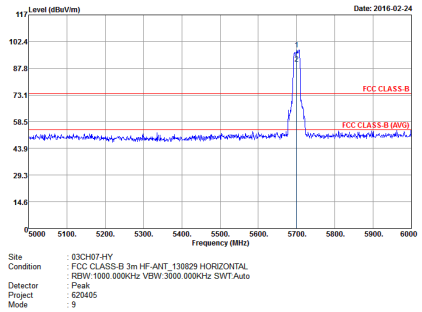
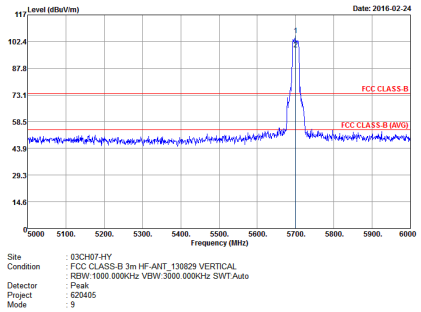
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

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

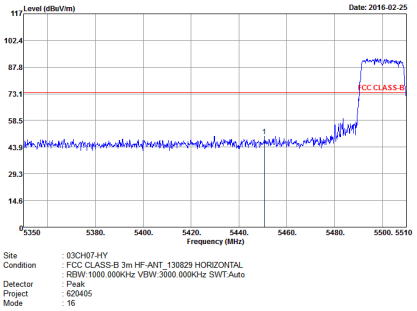
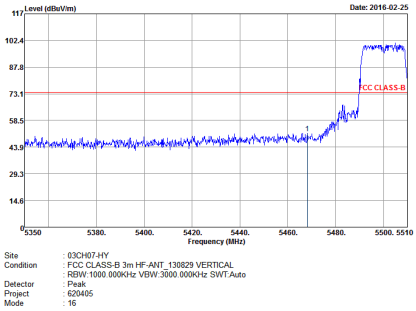
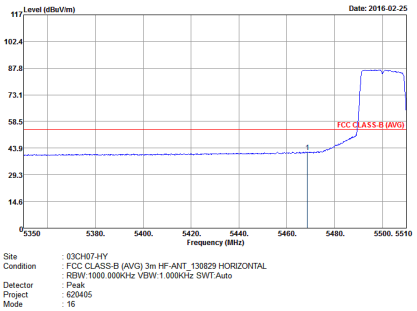
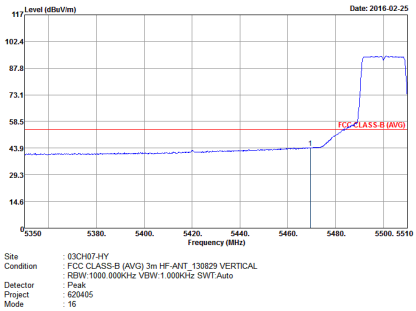
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

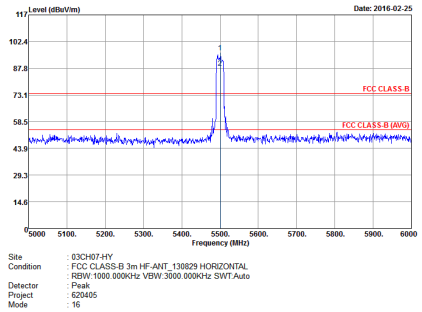
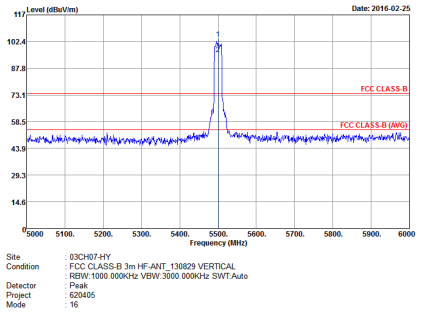
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg		

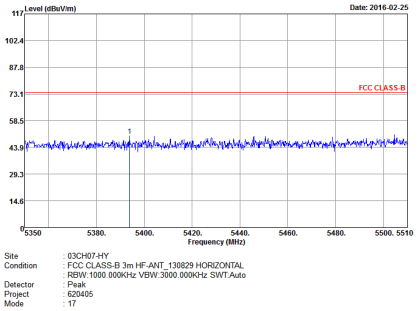
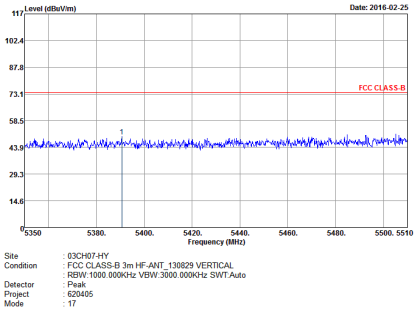
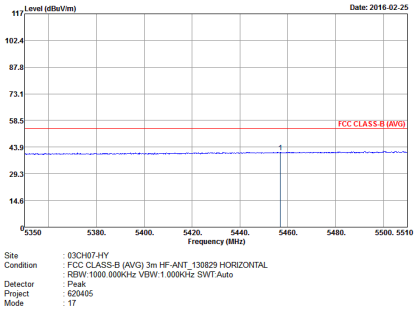
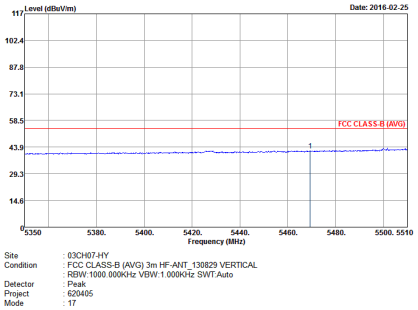
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak		
Avg.		

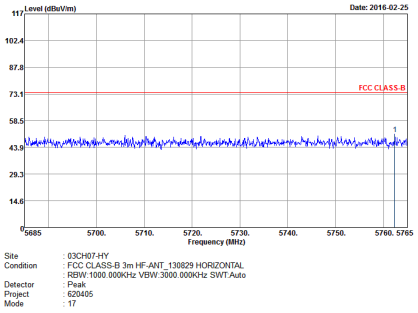
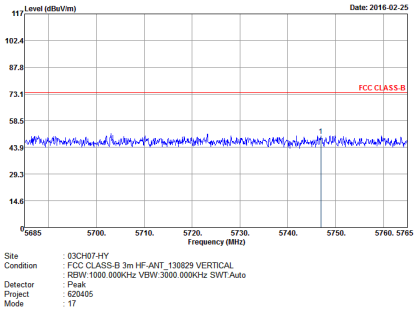
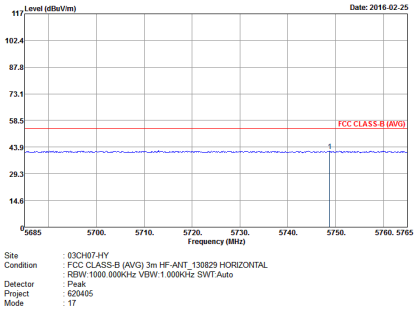
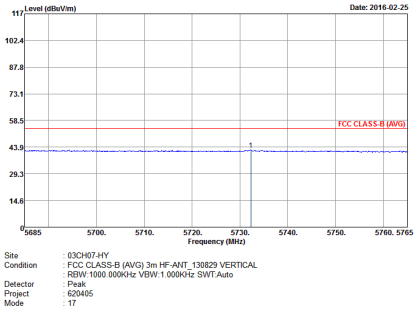
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg		

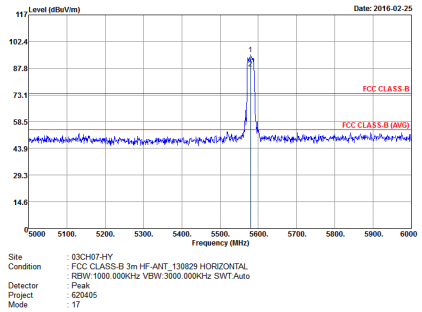
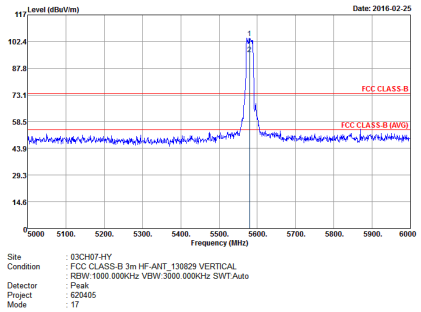
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

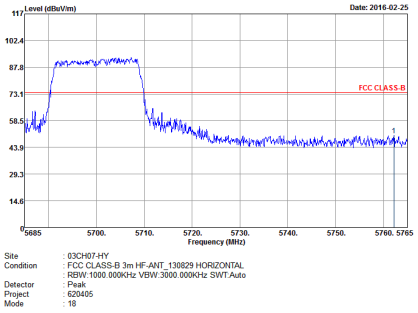
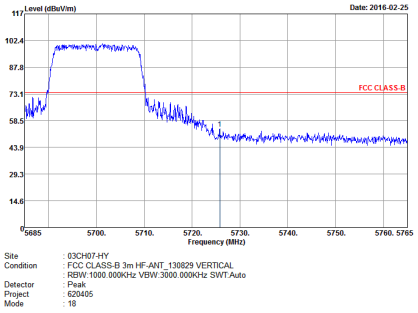
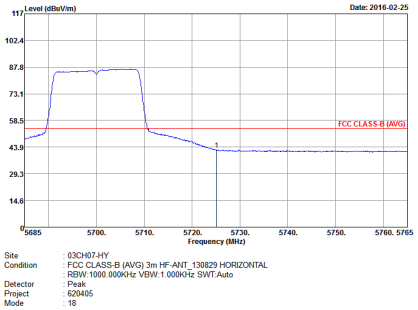
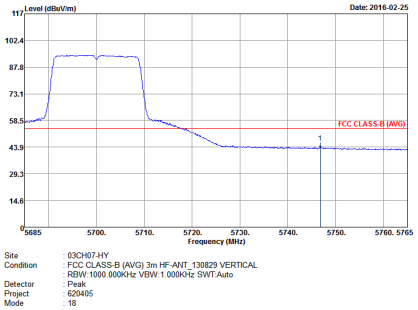
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak		
Avg.		

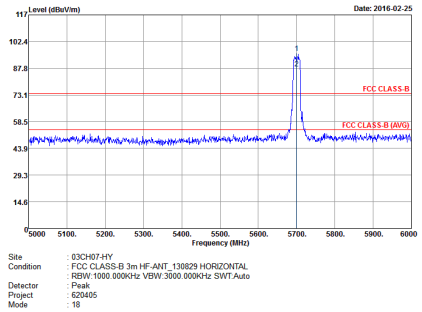
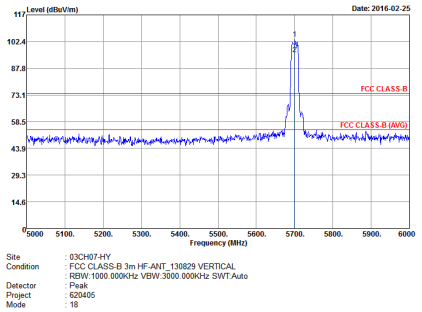
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg		

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

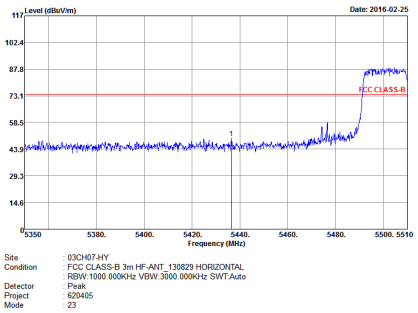
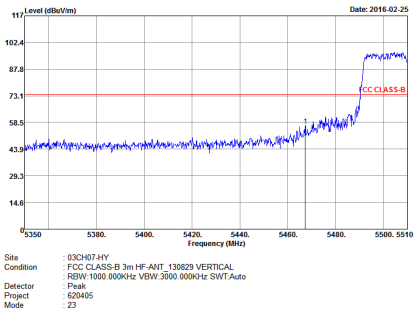
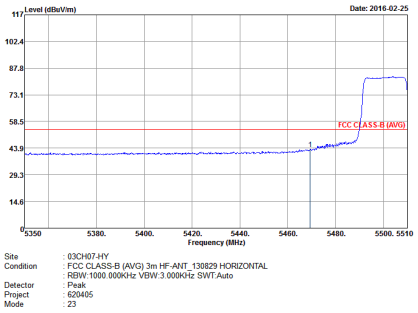
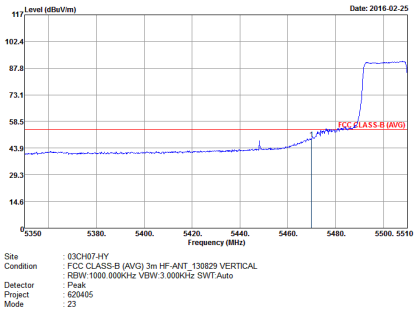
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

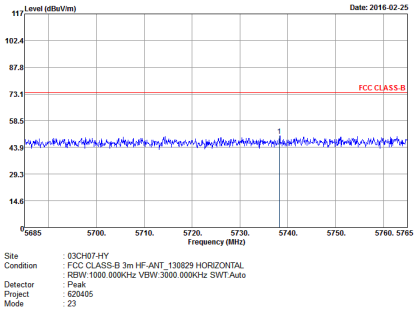
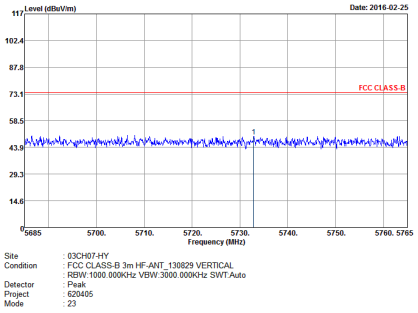
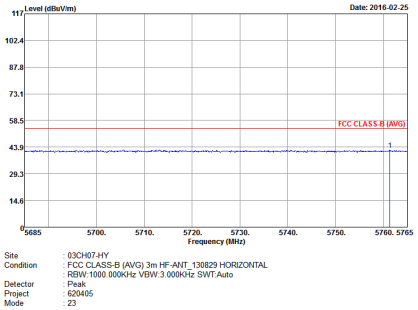
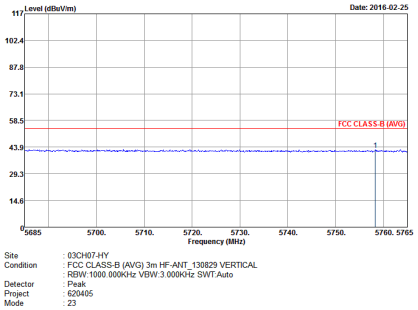
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

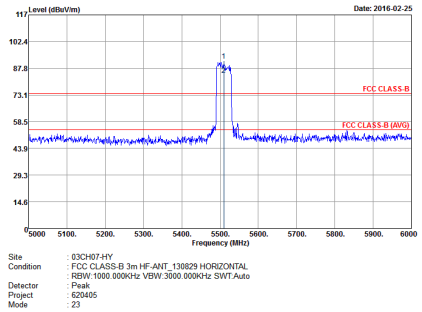
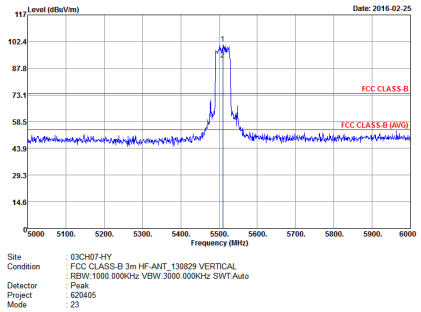
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak		
Avg.		

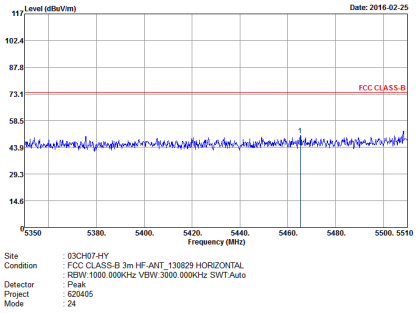
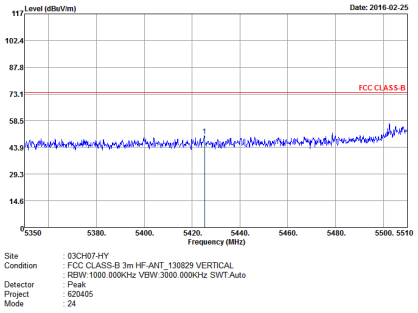
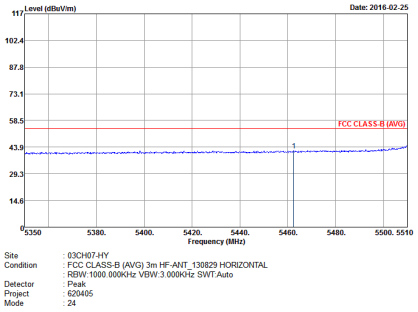
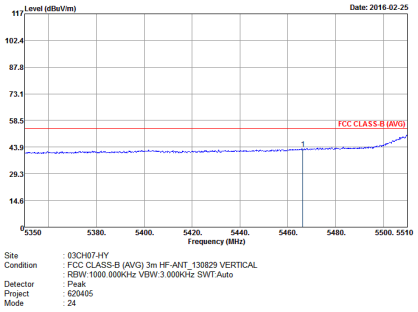
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

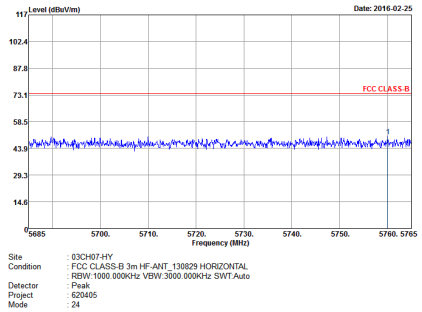
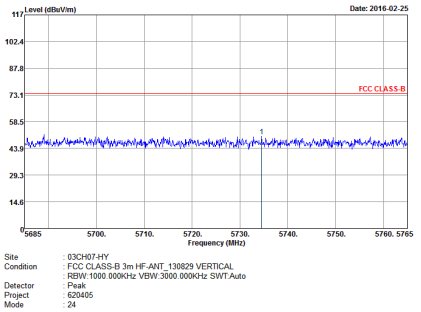
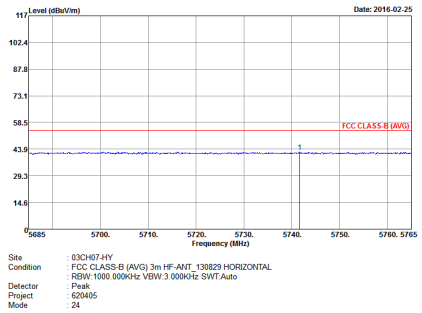
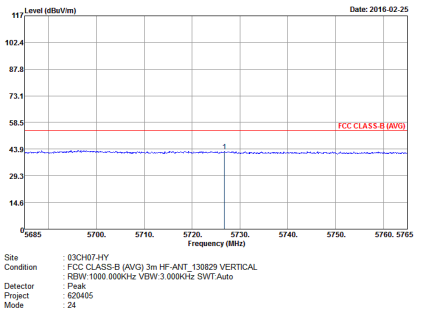
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

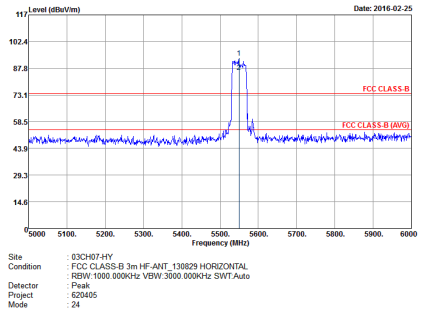
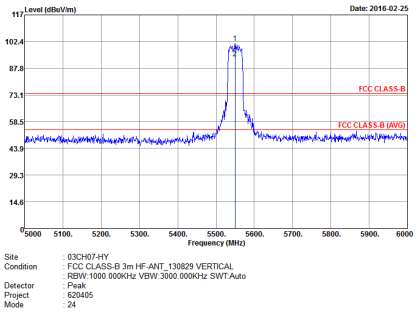
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

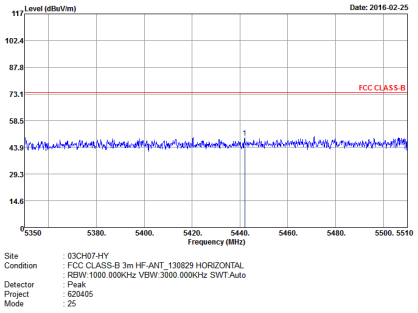
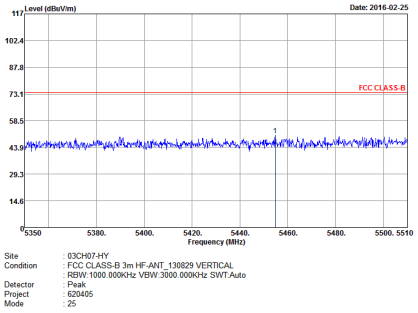
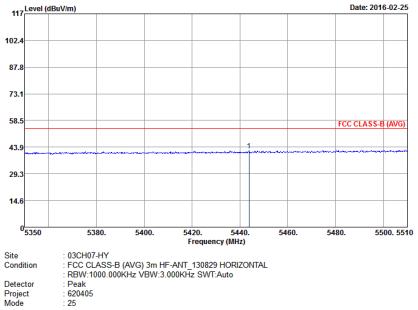
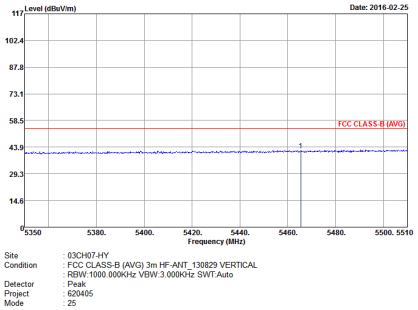
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

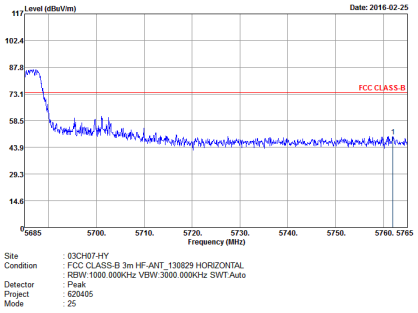
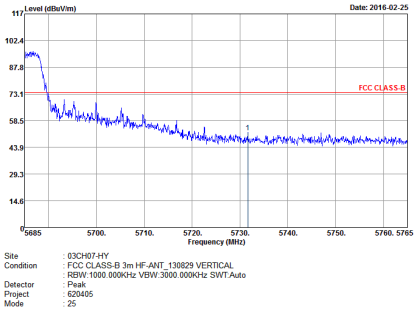
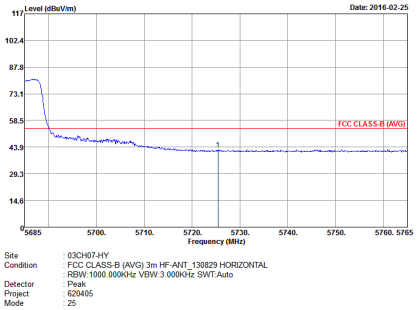
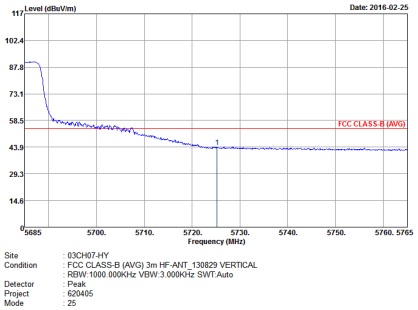
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

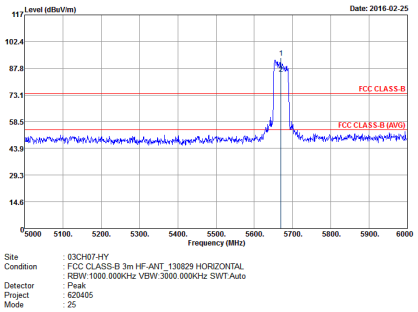
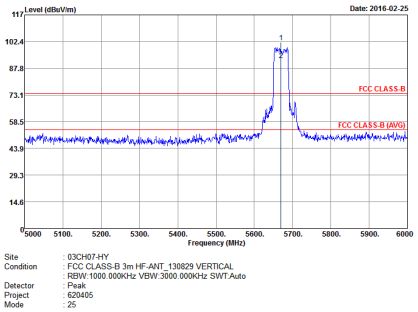
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

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

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

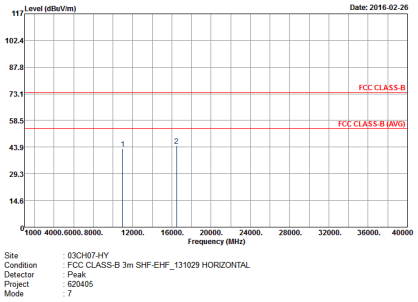
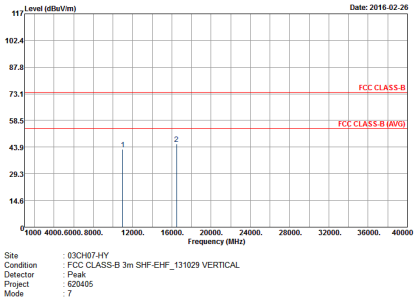
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

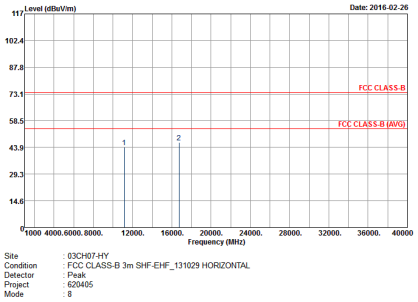
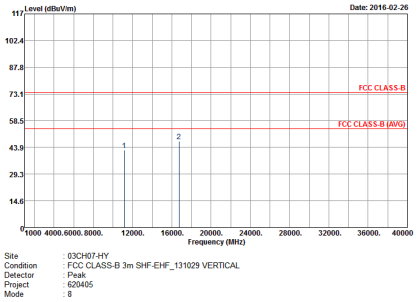
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Vertical
Peak		
Avg.		

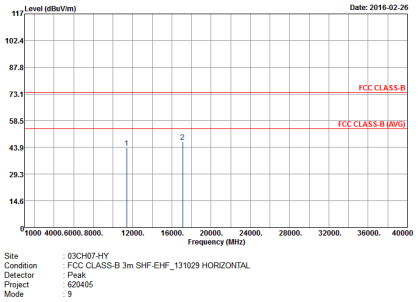
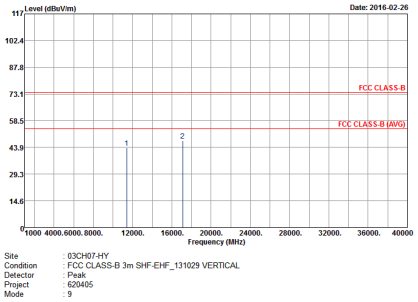
WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 - 5470~5725MHz

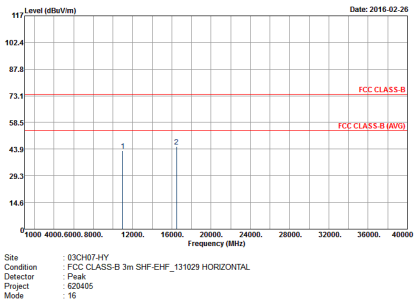
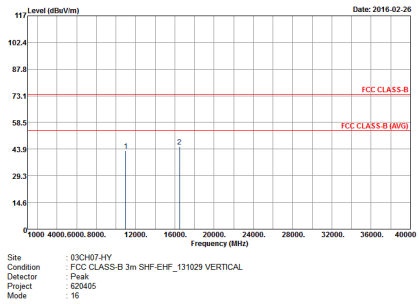
WIFI 802.11a (Harmonic @ 3m)

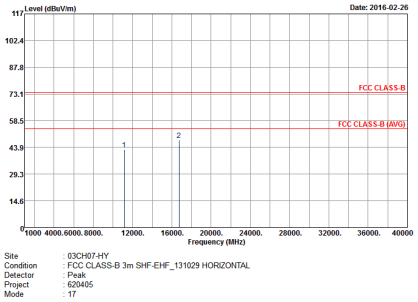
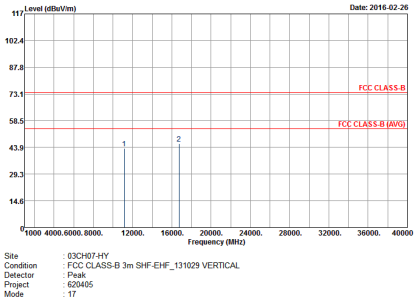
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

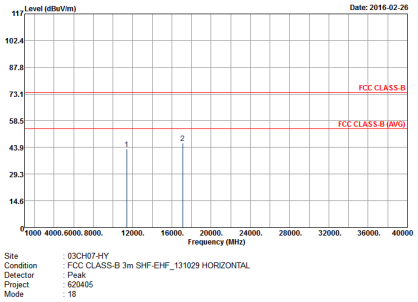
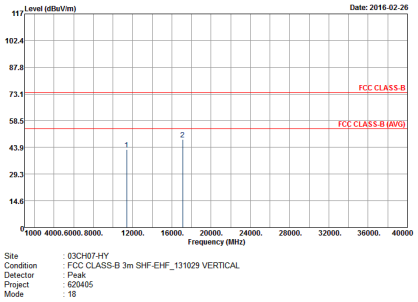
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 8	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 8

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

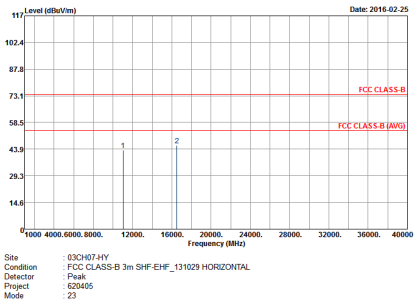
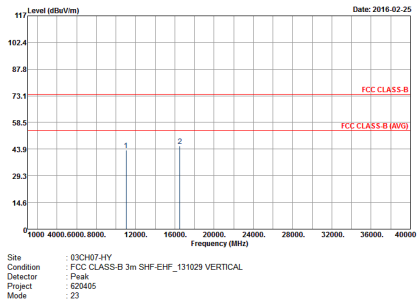
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

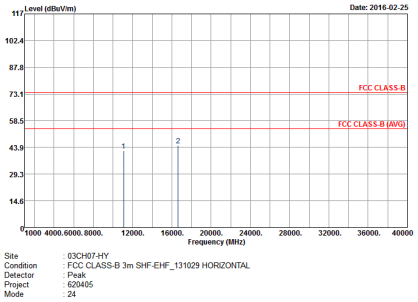
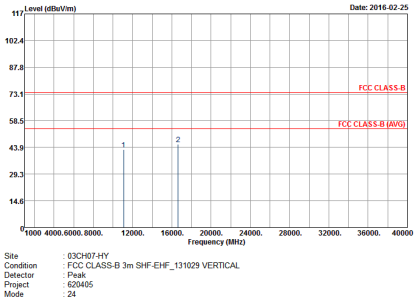
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

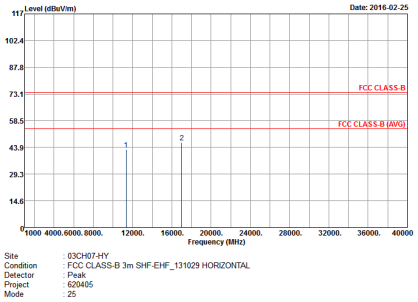
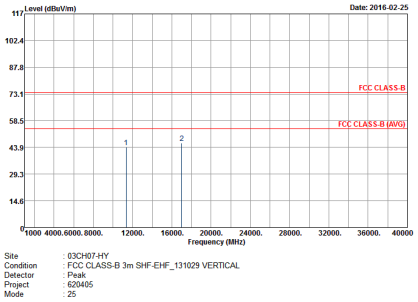
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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)

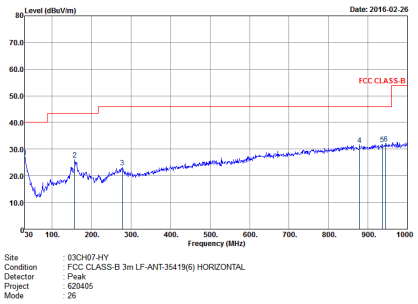
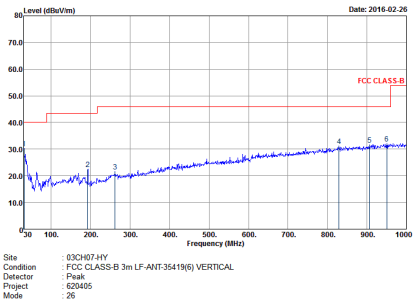
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

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.		

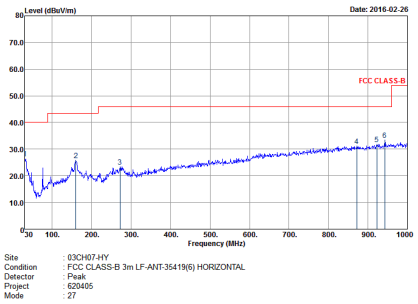
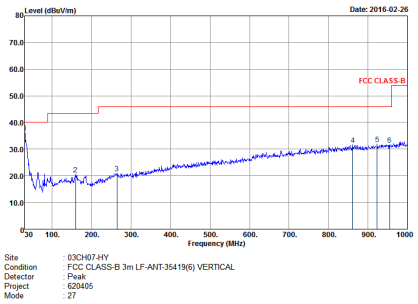
Emission below 1GHz

5GHz WIFI 802.11a (LF)

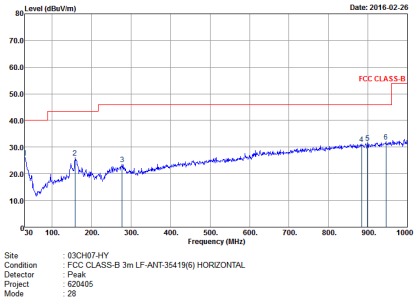
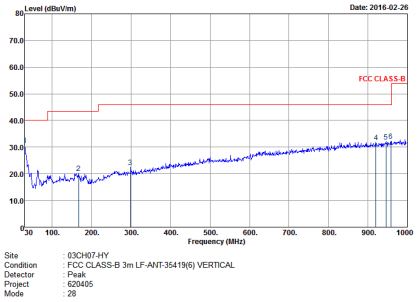
WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

5GHz WIFI 802.11n HT40 (LF)

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