



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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR620405F	Rev. 01	Initial issue of report	Apr. 28, 2016
FR620405F	Rev. 02	Updating EUT information in section 1.3.	May 10, 2016
FR620405F	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	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm/MHz & 15.209(a)	Pass	Under limit 6.45 dB at 5715.000 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	-0.30 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 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH05-HY	CO05-HY	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 and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151	5755	159	5795
	153	5765	161	5805
	155	5775	165	5825

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
Average Power (dBm)	13.89	13.86	13.65	13.52	13.49	13.47	13.62	13.66

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	11.44	11.42	11.39	11.40	11.31	11.43	11.36	11.39

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	11.44	11.43	11.41	11.37	11.40	11.40	11.09	10.97

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.

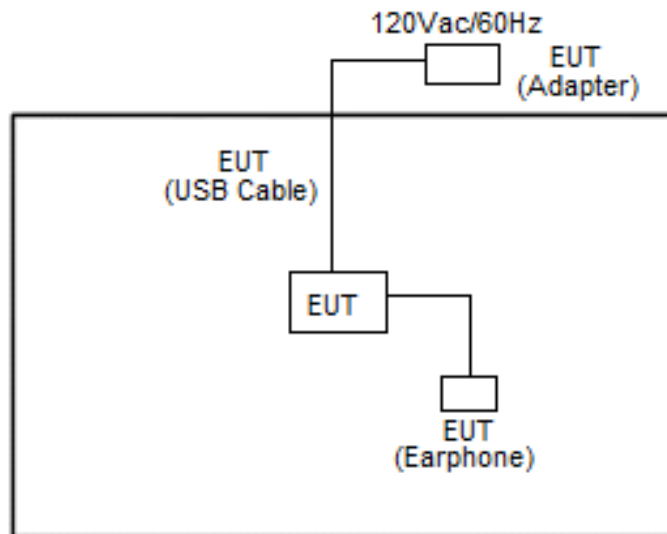
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from Adapter)
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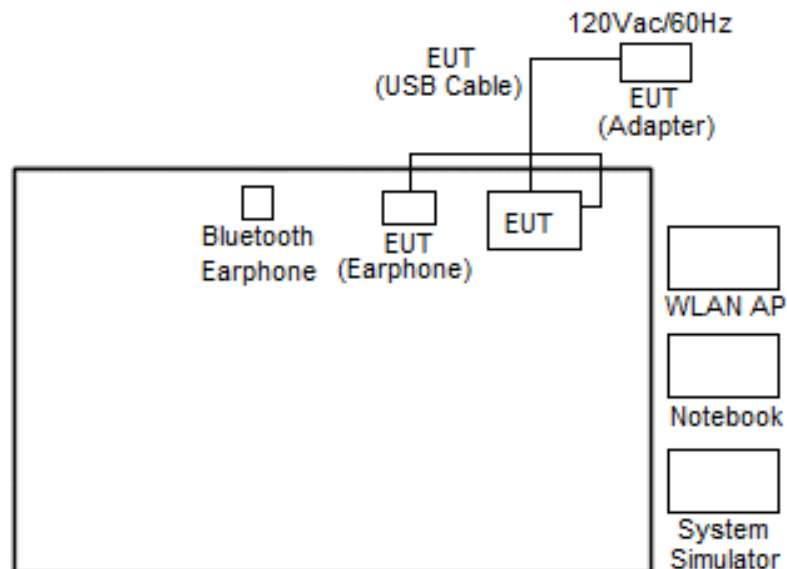
Ch. #		Band IV : 5725-5850 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

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.

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

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

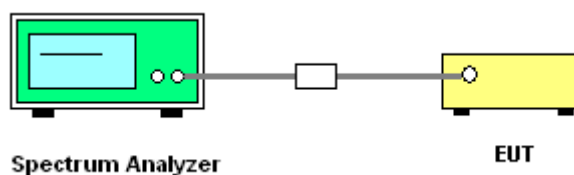
3.1.2 Measuring Instruments

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 for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

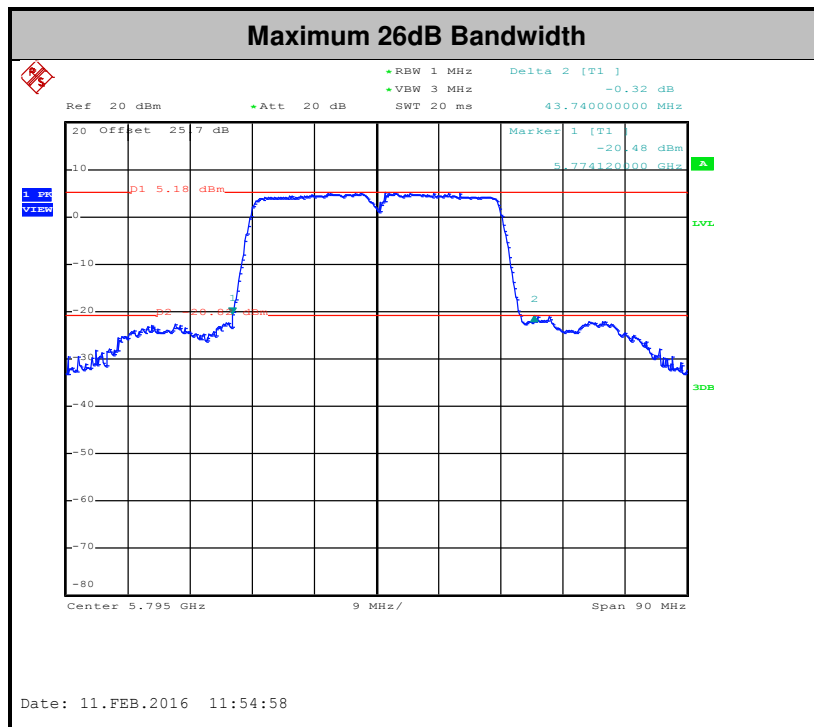
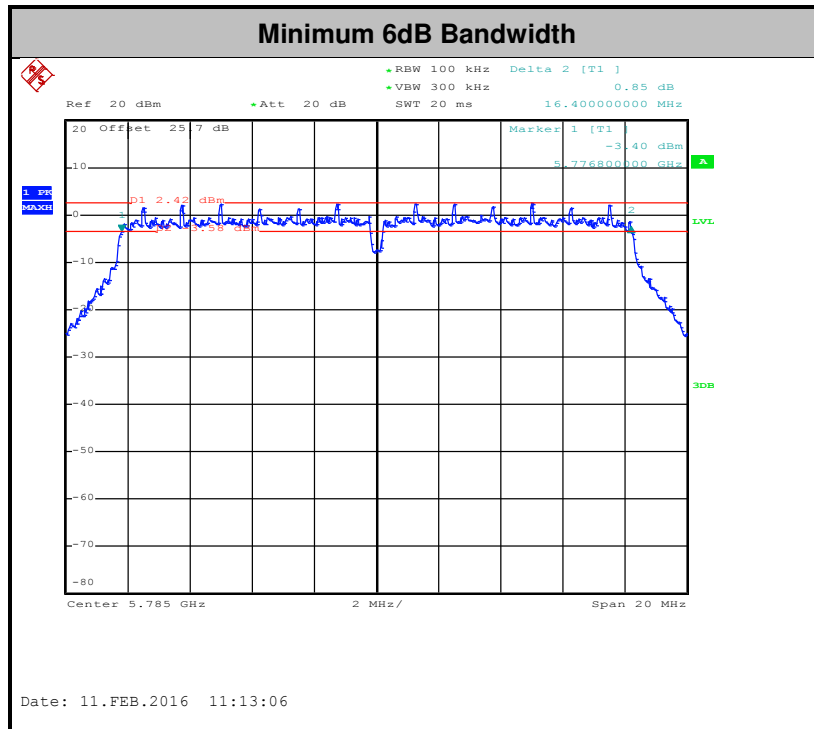
3.1.4 Test Setup

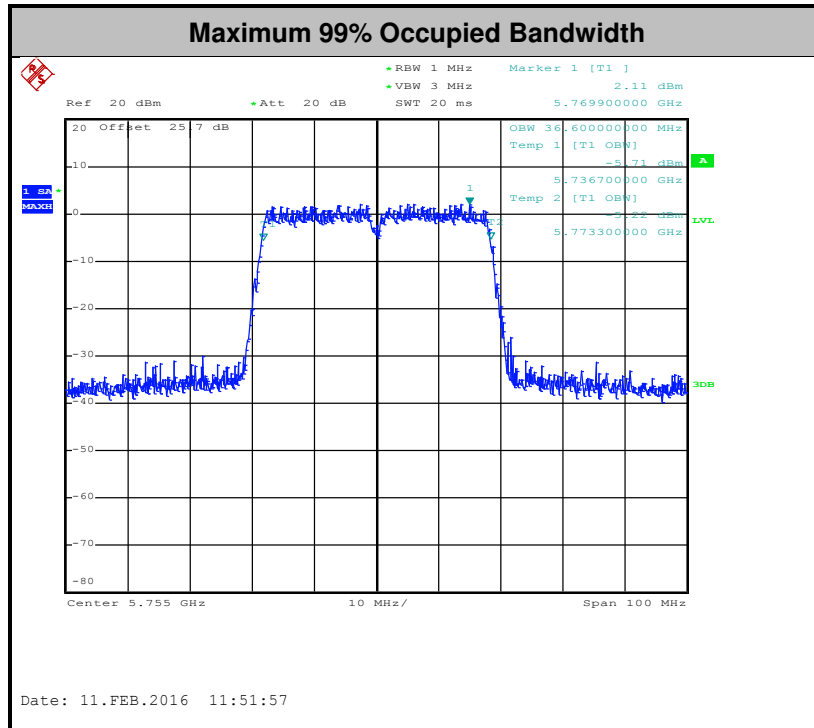




3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

3.2.2 Measuring Instruments

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

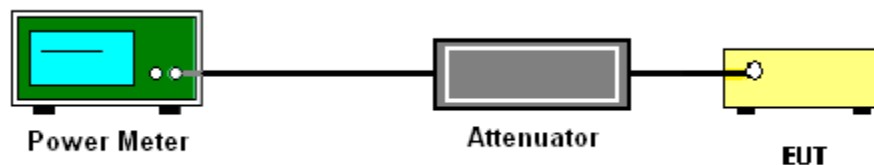
3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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

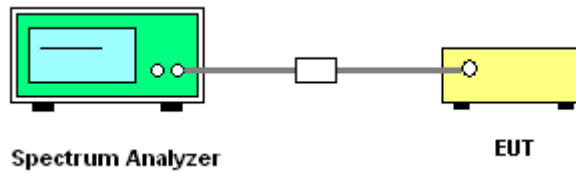
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
Section F) Maximum power spectral density.

Method SA-2

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

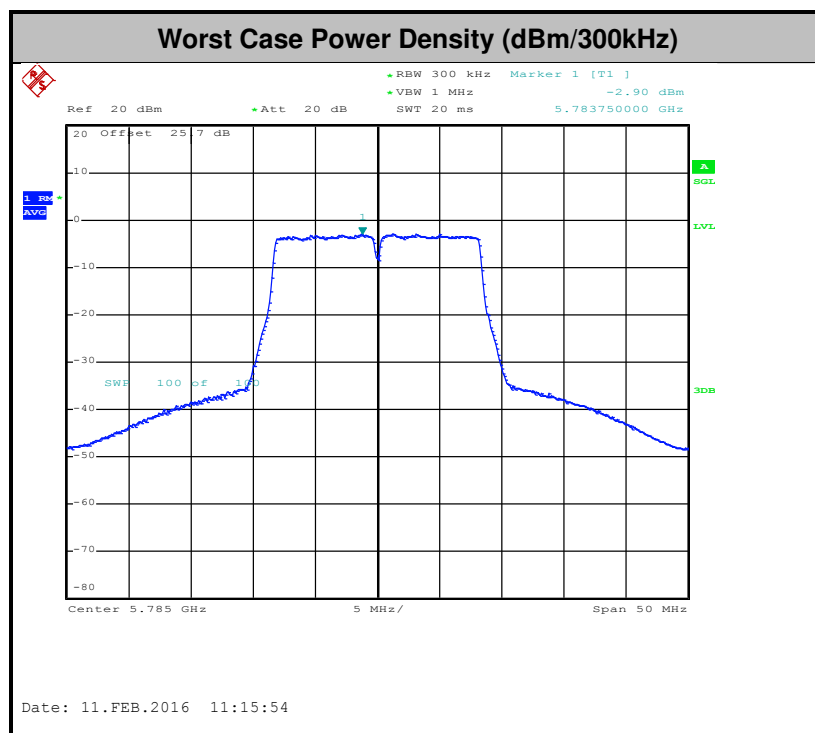
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - 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.



3.4 Unwanted Emissions 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 Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5725-5850 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBμV/m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBμV/m).
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 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.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
-27	68.3

- (3) KDB 789033 D02 General UNII Test Procedures New Rules 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 $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

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

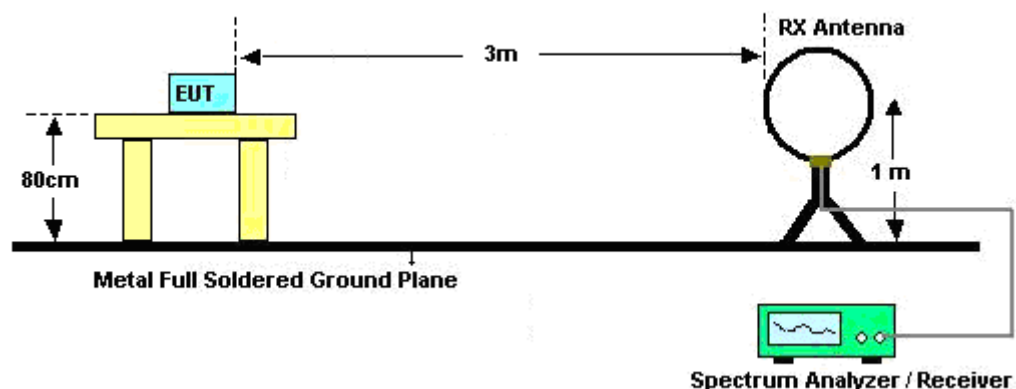
Band	Duty Cycle(%)	T(μ s)	1/T(kHz)	VBW Setting
802.11a	97.2	1390	0.72	1kHz
802.11n HT20	97.02	1300	0.77	1kHz
802.11n HT40	94.15	644	1.55	3kHz

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.

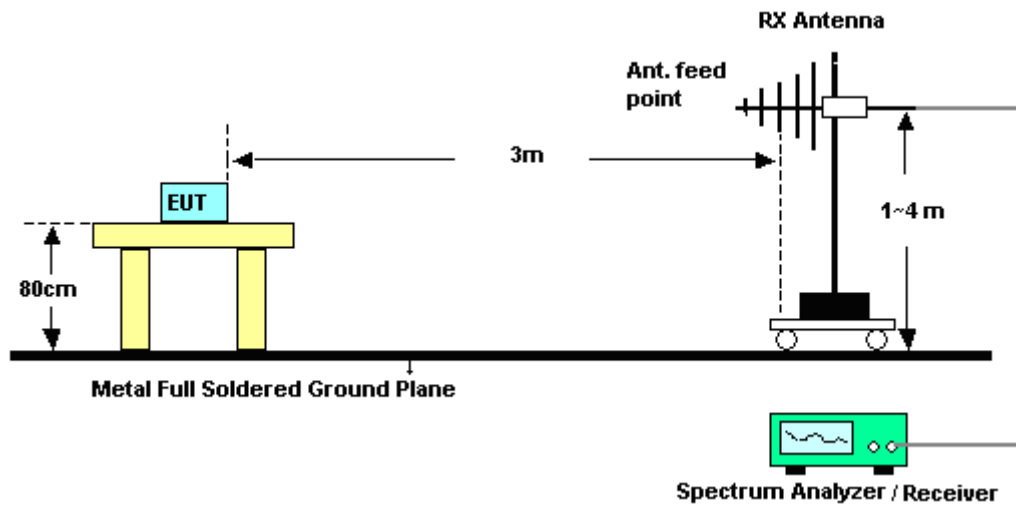
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst 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

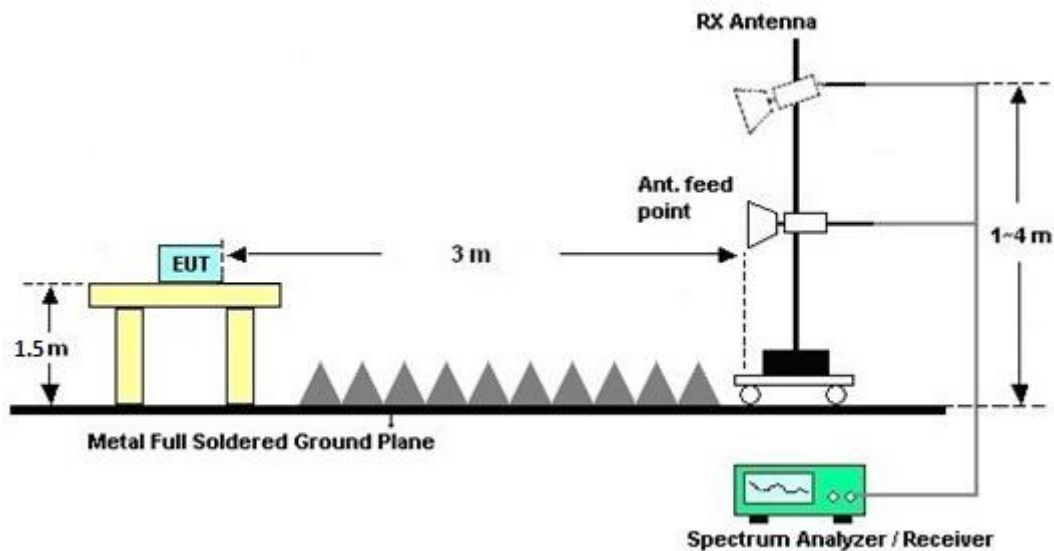
For radiated emissions below 30MHz



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.

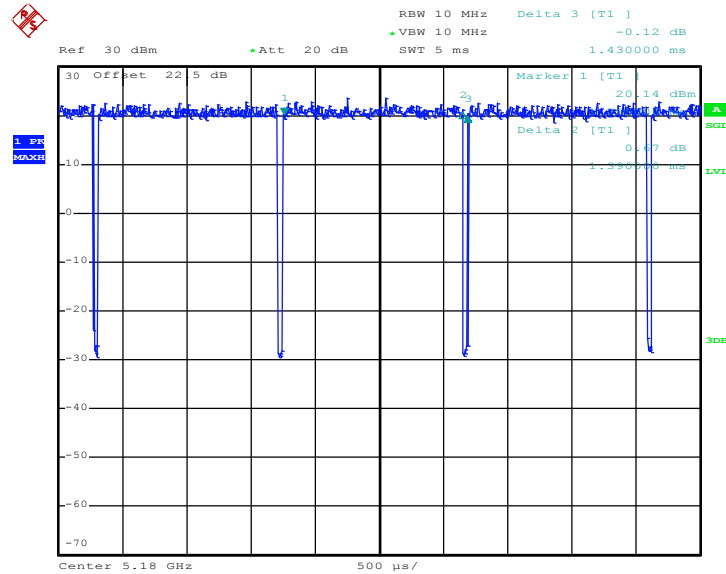
3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.



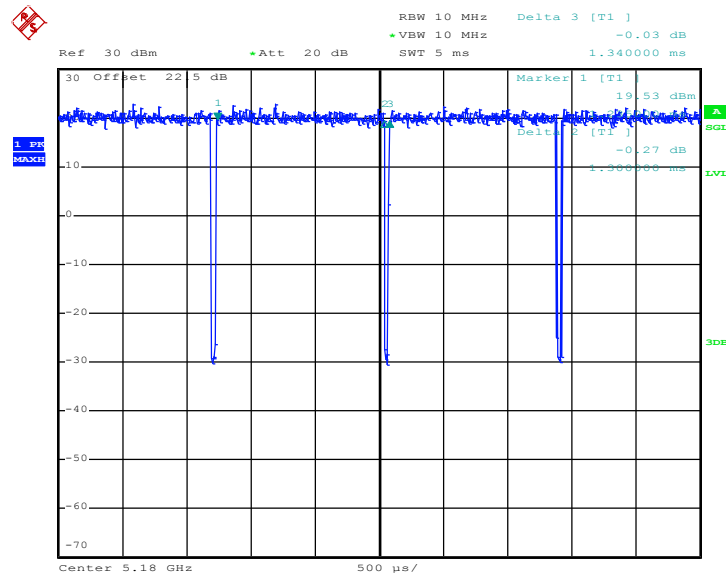
3.4.8 Duty Cycle

802.11a



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

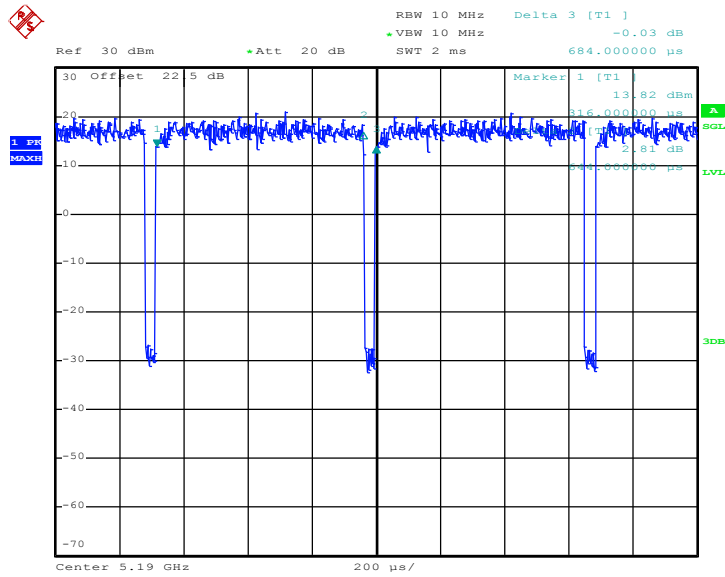
802.11n HT20



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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

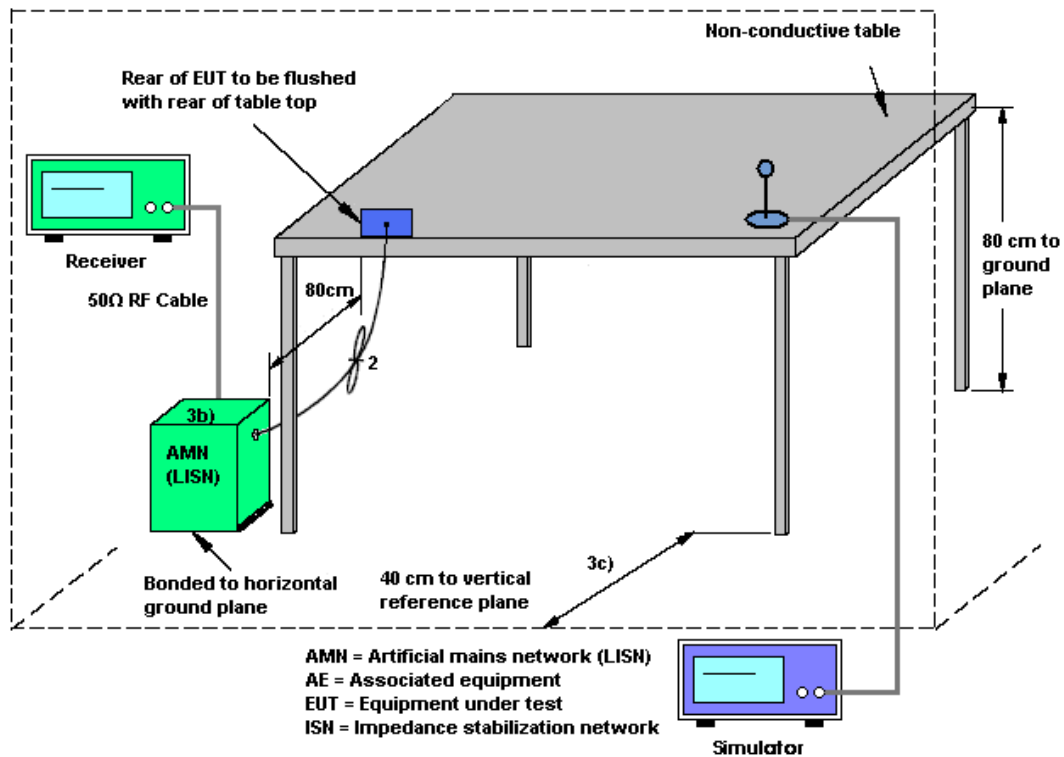
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

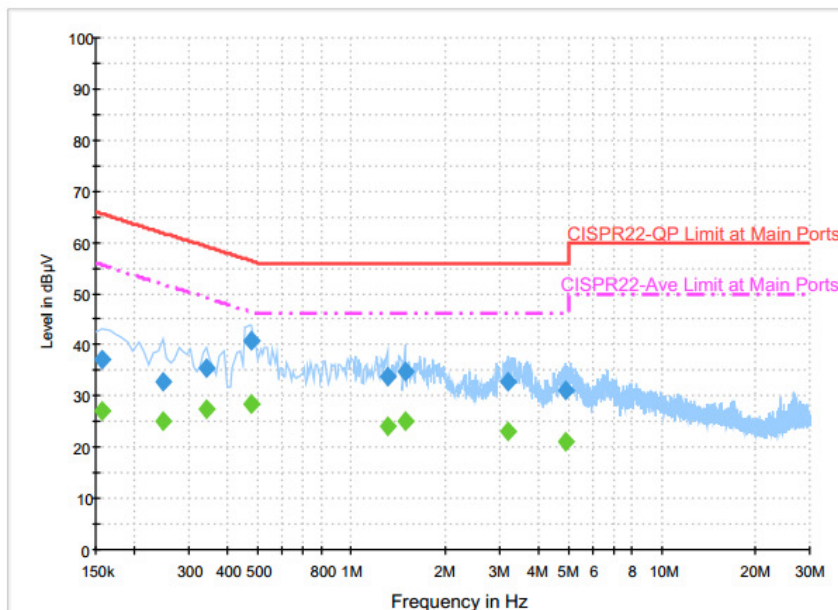
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~24°C
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)		



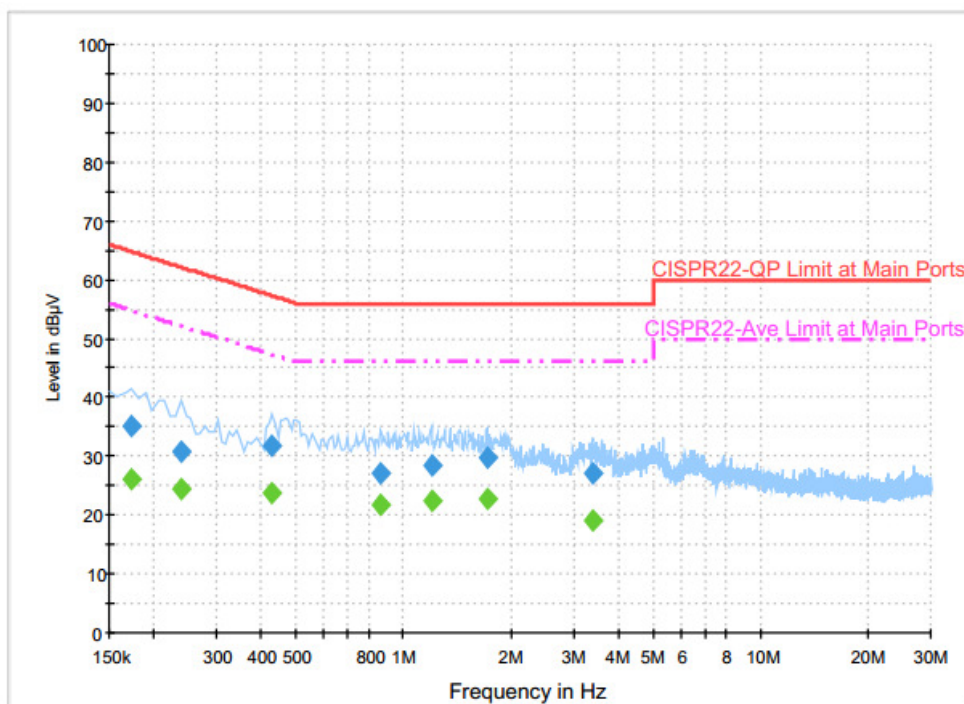
Final Result : QuasiPeak

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°C
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.

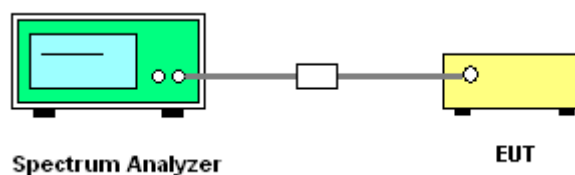
3.6.2 Measuring Instruments

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. 11, 2016	Aug. 26, 2016	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 12, 2015	Feb. 11, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 12, 2015	Feb. 11, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Feb. 11, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 08, 2015	Feb. 11, 2016	Sep. 07, 2016	Conducted (TH05-HY)
RF Cable	JYBAO	K30K30-5003-1.5M40	N/A	0.1MHz~40GHz	Mar. 18, 2015	Feb. 11, 2016	Mar. 17, 2016	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D	35419	30MHz to 1GHz	Jan. 13, 2016	Feb. 25, 2016 ~ Feb. 26, 2016	Jan. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Aug. 20, 2016	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 12, 2015	Feb. 25, 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. 25, 2016 ~ Feb. 26, 2016	Sep. 01, 2016	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 04, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	May 03, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 20, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Apr. 19, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 19, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Oct. 18, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Jun. 01, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 03, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Mar. 02, 2016	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Feb. 25, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Feb. 25, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Feb. 25, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Feb. 25, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9KHz~40GHz	Dec. 03, 2015	Feb. 25, 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. 25, 2016 ~ Feb. 26, 2016	Jan. 31, 2017	Radiation (03CH07-HY)
Test Software	Audix	E3	6.2009-8-24	N/A	N/A	Feb. 25, 2016 ~ Feb. 26, 2016	N/A	Radiation (03CH07-HY)
Filter	Wainwright	WLKS4500-8S S	SN19	4.5G Low Pass	Oct. 01, 2015	Feb. 25, 2016 ~ Feb. 26, 2016	Sep. 30, 2016	Radiation (03CH07-HY)
Filter	Microwave Circuits	H07G18G3	SN8009-01	7GHz HPF	Oct. 01, 2015	Feb. 25, 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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
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Appendix A. Conducted Test Results

Report Number : FR620405F

Test Engineer:	Luffy Lin	Temperature:	21.7~23.9	°C
Test Date:	2016/2/11	Relative Humidity:	51.8~53.4	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	17.75	21.5	16.48	0.5	Pass
11a	6Mbps	1	157	5785	17.75	32.3	16.4	0.5	Pass
11a	6Mbps	1	165	5825	17.65	31	16.4	0.5	Pass
HT20	MCS 0	1	149	5745	18.45	22.5	17.64	0.5	Pass
HT20	MCS 0	1	157	5785	18.45	22.1	17.6	0.5	Pass
HT20	MCS 0	1	165	5825	18.4	22.5	17.6	0.5	Pass
HT40	MCS 0	1	151	5755	36.6	41.76	36.32	0.5	Pass
HT40	MCS 0	1	159	5795	36.6	43.74	36.32	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV										
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	149	5745	0.12	9.77	30.00	-0.30		Pass
11a	6Mbps	1	157	5785	0.12	13.74	30.00	-0.30		Pass
11a	6Mbps	1	165	5825	0.12	13.89	30.00	-0.30		Pass
HT20	MCS 0	1	149	5745	0.13	11.28	30.00	-0.30		Pass
HT20	MCS 0	1	157	5785	0.13	11.36	30.00	-0.30		Pass
HT20	MCS 0	1	165	5825	0.13	11.44	30.00	-0.30		Pass
HT40	MCS 0	1	151	5755	0.26	9.21	30.00	-0.30		Pass
HT40	MCS 0	1	159	5795	0.26	11.44	30.00	-0.30		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.12	2.22	-4.88	30.00	-0.30	Pass
11a	6Mbps	1	157	5785	0.12	2.22	-0.56	30.00	-0.30	Pass
11a	6Mbps	1	165	5825	0.12	2.22	-1.15	30.00	-0.30	Pass
HT20	MCS 0	1	149	5745	0.13	2.22	-3.54	30.00	-0.30	Pass
HT20	MCS 0	1	157	5785	0.13	2.22	-3.35	30.00	-0.30	Pass
HT20	MCS 0	1	165	5825	0.13	2.22	-3.58	30.00	-0.30	Pass
HT40	MCS 0	1	151	5755	0.26	2.22	-8.28	30.00	-0.30	Pass
HT40	MCS 0	1	159	5795	0.26	2.22	-6.08	30.00	-0.30	Pass

TEST RESULTS DATA
Frequency Stability

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6M bps	1	149	5745	5745.000	0.000	0.00	20	3.5	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	20	4.1	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	20	3.7	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	-30	3.7	
11a	6M bps	1	149	5745	5745.000	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 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preampl 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 149 5745MHz		5708.52	50.38	-23.62	74	38.38	35.22	12.06	35.28	270	240	P	H
		5725	51.4	-26.9	78.3	39.39	35.23	12.06	35.28	270	240	P	H
		5713.72	41.98	-12.02	54	29.98	35.22	12.06	35.28	270	240	A	H
	*	5745	93.43	-	-	81.37	35.24	12.11	35.29	270	240	P	H
	*	5745	86.36	-	-	74.3	35.24	12.11	35.29	270	240	A	H
													H
													H
													H
		5712.12	53.22	-20.78	74	41.22	35.22	12.06	35.28	100	230	P	V
		5724.52	60.65	-17.65	78.3	48.64	35.23	12.06	35.28	100	230	P	V
		5712.76	44.29	-9.71	54	32.29	35.22	12.06	35.28	100	230	A	V
	*	5745	101.49	-	-	89.43	35.24	12.11	35.29	100	230	P	V
	*	5745	94.15	-	-	82.09	35.24	12.11	35.29	100	230	A	V
													V
													V
													V



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 157 5785MHz		5713.8	50.09	-23.91	74	38.09	35.22	12.06	35.28	280	240	P	H
		5718.68	51.35	-26.95	78.3	39.34	35.23	12.06	35.28	280	240	P	H
		5705.08	42.28	-11.72	54	30.28	35.22	12.06	35.28	280	240	A	H
	*	5785	97.82	-	-	85.68	35.27	12.17	35.3	280	240	P	H
	*	5785	89.6	-	-	77.46	35.27	12.17	35.3	280	240	A	H
		5852.8	50.89	-27.41	78.3	38.61	35.31	12.28	35.31	280	240	P	H
		5867.36	51.29	-22.71	74	38.9	35.32	12.39	35.32	280	240	P	H
		5866.72	42.66	-11.34	54	30.27	35.32	12.39	35.32	280	240	A	H
		5705.16	52.91	-21.09	74	40.91	35.22	12.06	35.28	190	235	P	V
		5724.68	53.03	-25.27	78.3	41.02	35.23	12.06	35.28	190	235	P	V
		5704.92	45.23	-8.77	54	33.23	35.22	12.06	35.28	190	235	A	V
	*	5785	105.34	-	-	93.2	35.27	12.17	35.3	190	235	P	V
	*	5785	98	-	-	85.86	35.27	12.17	35.3	190	235	A	V
		5856.56	52.73	-25.57	78.3	40.44	35.32	12.28	35.31	190	235	P	V
		5868.32	52.93	-21.07	74	40.54	35.32	12.39	35.32	190	235	P	V
		5864.88	44.63	-9.37	54	32.24	35.32	12.39	35.32	190	235	A	V



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 165 5825MHz	*	5825	97.92	-	-	85.65	35.3	12.28	35.31	264	238	P	H
	*	5825	88.86	-	-	76.59	35.3	12.28	35.31	264	238	A	H
		5851.2	52.26	-26.04	78.3	39.98	35.31	12.28	35.31	264	238	P	H
		5867.2	51.38	-22.62	74	38.99	35.32	12.39	35.32	264	238	P	H
		5860.08	43.25	-10.75	54	30.86	35.32	12.39	35.32	264	238	A	H
													H
													H
													H
	*	5825	105.55	-	-	93.28	35.3	12.28	35.31	186	239	P	V
	*	5825	98.05	-	-	85.78	35.3	12.28	35.31	186	239	A	V
		5850.56	55.45	-22.85	78.3	43.17	35.31	12.28	35.31	186	239	P	V
		5877.44	54.88	-19.12	74	42.48	35.33	12.39	35.32	186	239	P	V
		5862.08	46.25	-7.75	54	33.86	35.32	12.39	35.32	186	239	A	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 149 5745MHz		11490	42.6	-31.4	74	45.09	38.19	17.16	57.84	100	0	P	H
		17232	47.19	-26.81	74	40.76	42.21	20.76	56.54	100	0	P	H
													H
													H
		11490	42.7	-31.3	74	45.19	38.19	17.16	57.84	100	0	P	V
		17232	46.94	-27.06	74	40.51	42.21	20.76	56.54	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	43.16	-30.84	74	45.39	38.3	17.16	57.69	100	0	P	H
		17352	46.41	-27.59	74	40.06	42.12	20.84	56.61	100	0	P	H
													H
													H
		11570	43.02	-30.98	74	45.25	38.3	17.16	57.69	100	0	P	V
		17352	47.35	-26.65	74	41	42.12	20.84	56.61	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	42.35	-31.65	74	44.38	38.39	17.16	57.58	100	0	P	H
		17472	46.95	-27.05	74	40.67	42.03	20.93	56.68	100	0	P	H
													H
													H
		11650	42.29	-31.71	74	44.32	38.39	17.16	57.58	100	0	P	V
		17472	46.77	-27.23	74	40.49	42.03	20.93	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5699.48	49.47	-24.53	74	37.54	35.21	12	35.28	301	207	P	H
		5723.16	51.58	-26.72	78.3	39.57	35.23	12.06	35.28	301	207	P	H
		5686.76	42.02	-11.98	54	30.09	35.21	12	35.28	301	207	A	H
	*	5745	92.42	-	-	80.36	35.24	12.11	35.29	301	207	P	H
	*	5745	85.19	-	-	73.13	35.24	12.11	35.29	301	207	A	H
													H
													H
													H
		5715	54.2	-19.8	74	42.2	35.22	12.06	35.28	186	220	P	V
		5723.64	66.16	-12.14	78.3	54.15	35.23	12.06	35.28	186	220	P	V
		5713.96	45.59	-8.41	54	33.59	35.22	12.06	35.28	186	220	A	V
	*	5745	104.6	-	-	92.54	35.24	12.11	35.29	186	220	P	V
	*	5745	95.96	-	-	83.9	35.24	12.11	35.29	186	220	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5689.32	51.4	-22.6	74	39.47	35.21	12	35.28	287	308	P	H
		5717.32	51.08	-27.22	78.3	39.08	35.22	12.06	35.28	287	308	P	H
		5713.8	41.75	-12.25	54	29.75	35.22	12.06	35.28	287	308	A	H
	*	5785	93.63	-	-	81.49	35.27	12.17	35.3	287	308	P	H
	*	5785	85.09	-	-	72.95	35.27	12.17	35.3	287	308	A	H
		5858.48	50.93	-27.37	78.3	38.65	35.32	12.28	35.32	287	308	P	H
		5882.48	51.41	-22.59	74	39.01	35.33	12.39	35.32	287	308	P	H
		5862.16	42.54	-11.46	54	30.15	35.32	12.39	35.32	287	308	A	H
		5710.28	52.7	-21.3	74	40.7	35.22	12.06	35.28	182	227	P	V
		5723.32	52.23	-26.07	78.3	40.22	35.23	12.06	35.28	182	227	P	V
		5704.84	44.07	-9.93	54	32.07	35.22	12.06	35.28	182	227	A	V
	*	5785	103.14	-	-	91	35.27	12.17	35.3	182	227	P	V
	*	5785	95.72	-	-	83.58	35.27	12.17	35.3	182	227	A	V
		5854.64	51.43	-26.87	78.3	39.14	35.32	12.28	35.31	182	227	P	V
		5868.64	51.84	-22.16	74	39.45	35.32	12.39	35.32	182	227	P	V
		5864.8	43.47	-10.53	54	31.08	35.32	12.39	35.32	182	227	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	93.94	-	-	81.67	35.3	12.28	35.31	296	307	P	H
	*	5825	85	-	-	72.73	35.3	12.28	35.31	296	307	A	H
		5850.32	50.19	-28.11	78.3	37.91	35.31	12.28	35.31	296	307	P	H
		5870.4	51.63	-22.37	74	39.24	35.32	12.39	35.32	296	307	P	H
		5881.68	42.58	-11.42	54	30.18	35.33	12.39	35.32	296	307	A	H
													H
													H
													H
	*	5825	103.14	-	-	90.87	35.3	12.28	35.31	190	235	P	V
	*	5825	94.1	-	-	81.83	35.3	12.28	35.31	190	235	A	V
		5850.4	53.8	-24.5	78.3	41.52	35.31	12.28	35.31	190	235	P	V
		5860.64	52.84	-21.16	74	40.45	35.32	12.39	35.32	190	235	P	V
		5861.6	44.3	-9.7	54	31.91	35.32	12.39	35.32	190	235	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	43.55	-30.45	74	46.04	38.19	17.16	57.84	100	0	P	H
		17232	47.21	-26.79	74	40.78	42.21	20.76	56.54	100	0	P	H
													H
													H
		11490	42.68	-31.32	74	45.17	38.19	17.16	57.84	100	0	P	V
		17232	46.84	-27.16	74	40.41	42.21	20.76	56.54	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	43.45	-30.55	74	45.68	38.3	17.16	57.69	100	0	P	H
		17352	46.69	-27.31	74	40.34	42.12	20.84	56.61	100	0	P	H
													H
													H
		11570	43.72	-30.28	74	45.95	38.3	17.16	57.69	100	0	P	V
		17352	46.93	-27.07	74	40.58	42.12	20.84	56.61	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	42.29	-31.71	74	44.32	38.39	17.16	57.58	100	0	P	H
		17472	47.14	-26.86	74	40.86	42.03	20.93	56.68	100	0	P	H
													H
													H
		11650	42.36	-31.64	74	44.39	38.39	17.16	57.58	100	0	P	V
		17472	46.67	-27.33	74	40.39	42.03	20.93	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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 151 5755MHz		5708.04	50.43	-23.57	74	38.43	35.22	12.06	35.28	300	283	P	H
		5719.88	52.24	-26.06	78.3	40.23	35.23	12.06	35.28	300	283	P	H
		5714.84	42.65	-11.35	54	30.65	35.22	12.06	35.28	300	283	A	H
	*	5755	87.31	-	-	75.23	35.26	12.11	35.29	300	283	P	H
	*	5755	80.05	-	-	67.97	35.26	12.11	35.29	300	283	A	H
		5851.6	51.21	-27.09	78.3	38.93	35.31	12.28	35.31	300	283	P	H
		5886.48	50.8	-23.2	74	38.4	35.33	12.39	35.32	300	283	P	H
		5873.68	43.01	-10.99	54	30.61	35.33	12.39	35.32	300	283	A	H
		5713.56	56.28	-17.72	74	44.28	35.22	12.06	35.28	194	226	P	V
		5719.24	62.75	-15.55	78.3	50.74	35.23	12.06	35.28	194	226	P	V
		5715	47.55	-6.45	54	35.55	35.22	12.06	35.28	194	226	A	V
	*	5755	98.14	-	-	86.06	35.26	12.11	35.29	194	226	P	V
	*	5755	89.61	-	-	77.53	35.26	12.11	35.29	194	226	A	V
		5854.88	50.47	-27.83	78.3	38.18	35.32	12.28	35.31	194	226	P	V
		5871.52	50.92	-23.08	74	38.52	35.33	12.39	35.32	194	226	P	V
		5860.56	43.5	-10.5	54	31.11	35.32	12.39	35.32	194	226	A	V



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 159 5795MHz		5693.08	50.48	-23.52	74	38.55	35.21	12	35.28	300	322	P	H
		5723.48	50.83	-27.47	78.3	38.82	35.23	12.06	35.28	300	322	P	H
		5694.84	42.67	-11.33	54	30.74	35.21	12	35.28	300	322	A	H
	*	5795	91.49	-	-	79.34	35.28	12.17	35.3	300	322	P	H
	*	5795	83.11	-	-	70.96	35.28	12.17	35.3	300	322	A	H
		5858.8	50.56	-27.74	78.3	38.28	35.32	12.28	35.32	300	322	P	H
		5882.32	51.08	-22.92	74	38.68	35.33	12.39	35.32	300	322	P	H
		5888.88	43.02	-10.98	54	30.61	35.34	12.39	35.32	300	322	A	H
		5709.32	51.98	-22.02	74	39.98	35.22	12.06	35.28	192	240	P	V
		5718.76	51.86	-26.44	78.3	39.85	35.23	12.06	35.28	192	240	P	V
		5714.76	43.83	-10.17	54	31.83	35.22	12.06	35.28	192	240	A	V
	*	5795	100.85	-	-	88.7	35.28	12.17	35.3	192	240	P	V
	*	5795	93.13	-	-	80.98	35.28	12.17	35.3	192	240	A	V
		5851.92	52.83	-25.47	78.3	40.55	35.31	12.28	35.31	192	240	P	V
		5879.36	51.63	-22.37	74	39.23	35.33	12.39	35.32	192	240	P	V
		5860.24	43.93	-10.07	54	31.54	35.32	12.39	35.32	192	240	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	42.73	-31.27	74	45.17	38.2	17.16	57.8	100	0	P	H
		17268	45.83	-28.17	74	39.41	42.19	20.79	56.56	100	0	P	H
													H
													H
		11510	42.79	-31.21	74	45.23	38.2	17.16	57.8	100	0	P	V
		17268	45.75	-28.25	74	39.33	42.19	20.79	56.56	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	42.37	-31.63	74	44.55	38.32	17.16	57.66	100	0	P	H
		17388	46.15	-27.85	74	39.82	42.09	20.87	56.63	100	0	P	H
													H
													H
		11590	42.27	-31.73	74	44.45	38.32	17.16	57.66	100	0	P	V
		17388	46.83	-27.17	74	40.5	42.09	20.87	56.63	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

5GHz 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)
5GHz 802.11a LF		31.35	27.39	-12.61	40	32.28	25.46	1.07	31.42	100	0	P	H
		159.06	25.3	-18.2	43.5	37.64	17.07	1.78	31.19			P	H
		271.38	23.24	-22.76	46	32.52	19.38	2.32	30.98			P	H
		876.8	31.81	-14.19	46	29.13	28.86	4.17	30.35			P	H
		914.6	32.65	-13.35	46	29.51	29.35	4.12	30.33			P	H
		948.2	32.26	-13.74	46	28.41	30.18	4.07	30.4			P	H
													H
													H
													H
													H
													H
													H
		30	29.65	-10.35	40	34.08	26	1.07	31.5	100	0	P	V
		161.22	20.54	-22.96	43.5	33.04	16.9	1.78	31.18			P	V
		278.4	21.13	-24.87	46	30.41	19.32	2.32	30.92			P	V
		897.1	31.6	-14.4	46	28.76	28.98	4.17	30.31			P	V
		939.1	31.75	-14.25	46	28.07	29.94	4.12	30.38			P	V
		953.1	32.2	-13.8	46	28.31	30.21	4.07	30.39			P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz 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)
5GHz 802.11n HT20 LF		30.54	26.51	-13.49	40	31.44	25.46	1.07	31.46			P	H
		160.41	25.92	-17.58	43.5	38.33	17	1.78	31.19			P	H
		276.78	23.3	-22.7	46	32.58	19.34	2.32	30.94			P	H
		888.7	31.98	-14.02	46	29.2	28.93	4.17	30.32			P	H
		925.8	32.57	-13.43	46	29.16	29.64	4.12	30.35	100	0	P	H
		940.5	32.46	-13.54	46	28.78	29.99	4.07	30.38			P	H
													H
													H
													H
													H
													H
													H
		30	30.7	-9.3	40	35.13	26	1.07	31.5	100	0	P	V
		160.41	20.04	-23.46	43.5	32.45	17	1.78	31.19			P	V
		285.42	21.47	-24.53	46	30.65	19.5	2.32	31			P	V
		850.2	31.73	-14.27	46	29.32	28.71	4.1	30.4			P	V
		923.7	31.74	-14.26	46	28.41	29.56	4.12	30.35			P	V
		933.5	32.42	-13.58	46	28.87	29.8	4.12	30.37			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

5GHz 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)
5GHz 802.11n HT40 LF		30	26.42	-13.58	40	30.85	26	1.07	31.5			P	H
		160.41	25.47	-18.03	43.5	37.88	17	1.78	31.19			P	H
		225.21	23.88	-22.12	46	36.01	16.8	2.07	31			P	H
		848.8	31.79	-14.21	46	29.41	28.68	4.1	30.4			P	H
		919.5	32.61	-13.39	46	29.36	29.47	4.12	30.34	100	0	P	H
		950.3	32.37	-13.63	46	28.5	30.2	4.07	30.4			P	H
													H
													H
													H
													H
													H
													H
		30	29.57	-10.43	40	34	26	1.07	31.5	100	0	P	V
		181.47	20.51	-22.99	43.5	34.15	15.41	1.87	30.92			P	V
		262.47	21.34	-24.66	46	30.2	19.82	2.32	31			P	V
		866.3	32.07	-13.93	46	29.47	28.8	4.17	30.37			P	V
		939.1	32.29	-13.71	46	28.61	29.94	4.12	30.38			P	V
		951	32.38	-13.62	46	28.51	30.2	4.07	30.4			P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix C. Radiated Spurious Emission Plots

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

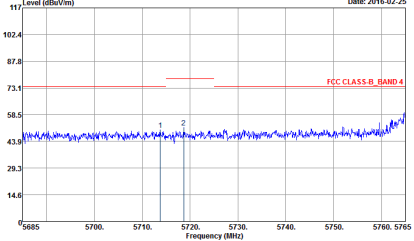
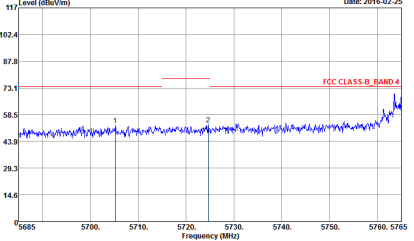
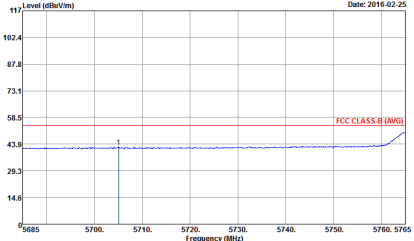
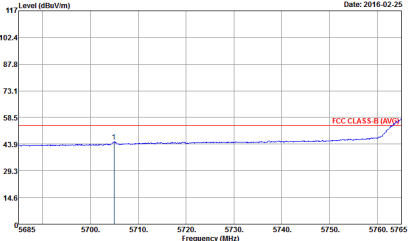


Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

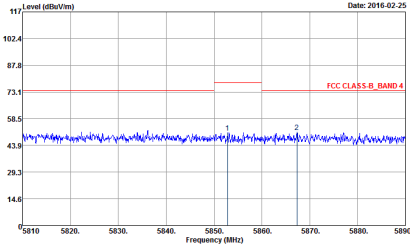
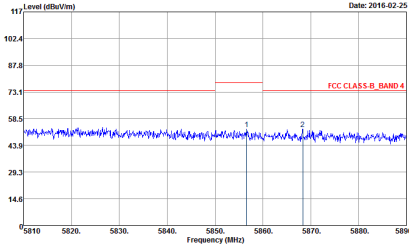
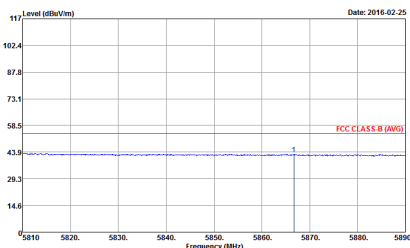
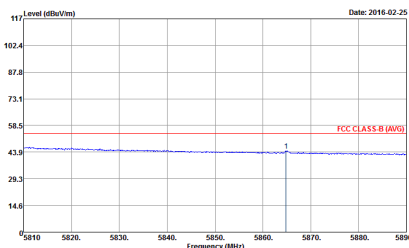
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Date: 2016-02-25	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Date: 2016-02-25
Avg.	Site : 03CH07-4Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 620405 Date: 2016-02-25	Site : 03CH07-4Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 620405 Date: 2016-02-25



WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 29	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 29

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 620405 Mode : 30	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 620405 Mode : 30
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 620405 Mode : 30	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 620405 Mode : 30

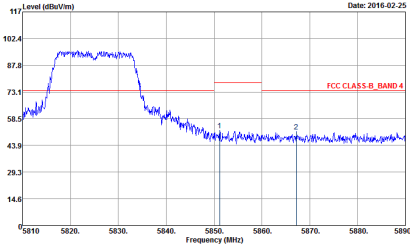
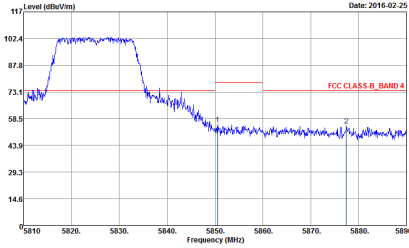
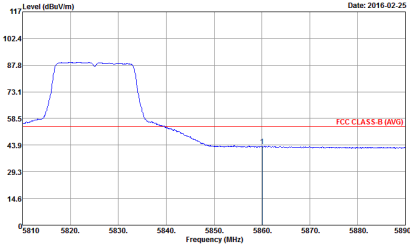
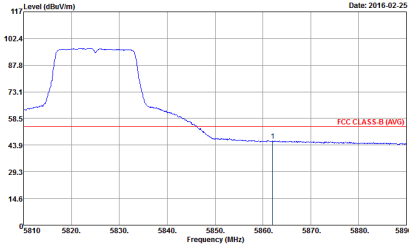


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz - R	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B_BAND 4 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 30	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B_BAND 4 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 30
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B (AVG) Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 30	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B (AVG) Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 30



WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg	117 Level (dBuV/m) Date: 2016-02-25 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Mode : 30	117 Level (dBuV/m) Date: 2016-02-25 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Mode : 30



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 31	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 31
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 31	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 31



WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 31	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 31



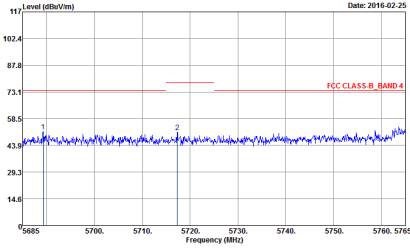
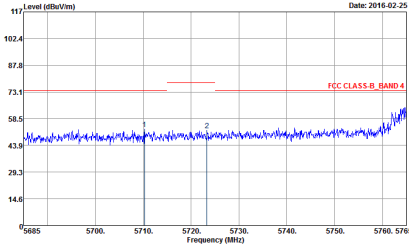
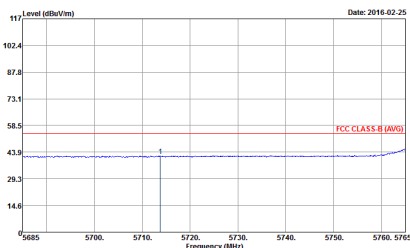
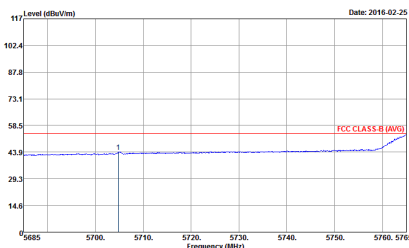
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B, BAND 4 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 32	Site : 03CH07-HY Condition : FCC CLASS-B, BAND 4 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 32
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 32	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 32

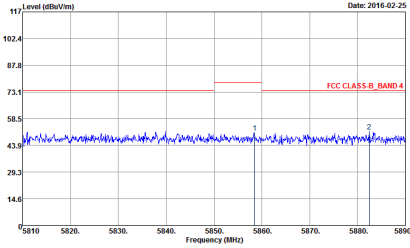
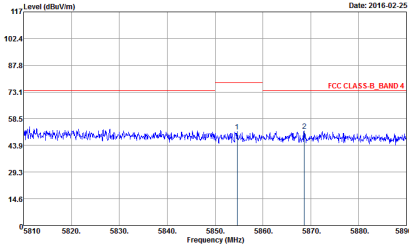
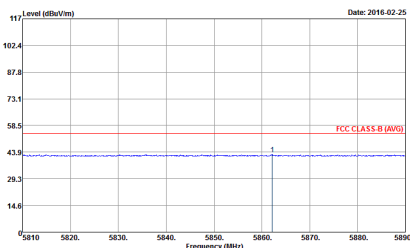
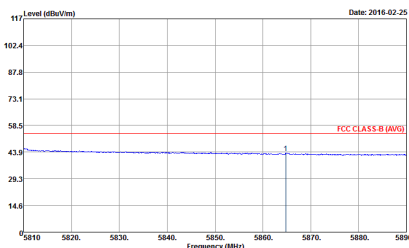


WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 Mode : 32	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 Mode : 32



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - L	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 73.1 dBuV/m representing the FCC CLASS-B_BAND 4 limit. Two vertical blue lines are marked at 5710 MHz and 5720 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 73.1 dBuV/m representing the FCC CLASS-B_BAND 4 limit. Two vertical blue lines are marked at 5710 MHz and 5720 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 73.1 dBuV/m representing the FCC CLASS-B (AVG) limit. A single vertical blue line is marked at 5710 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 73.1 dBuV/m representing the FCC CLASS-B (AVG) limit. A single vertical blue line is marked at 5710 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33

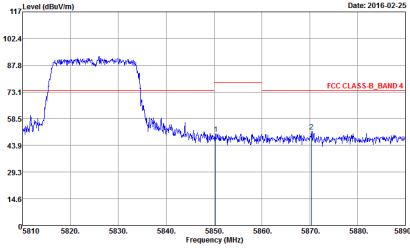
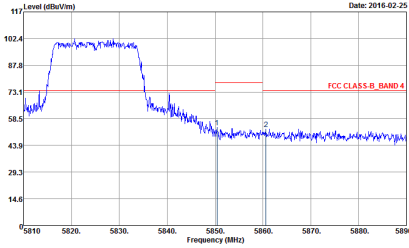
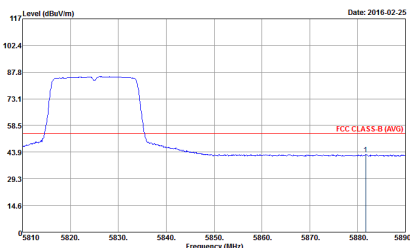
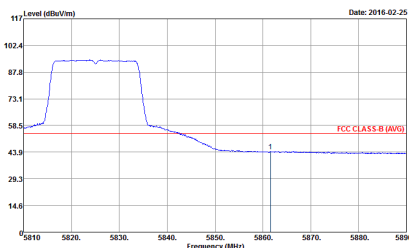


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - R	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B_BAND 4 limit. The measured signal is below the limit across the entire frequency range from 5810 to 5890 MHz. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B_BAND 4 limit. The measured signal is below the limit across the entire frequency range from 5810 to 5890 MHz. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B (AVG) limit. The measured signal is below the limit across the entire frequency range from 5810 to 5890 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B (AVG) limit. The measured signal is below the limit across the entire frequency range from 5810 to 5890 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 33



WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 33	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 33



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 63CH07-1Y Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 34	 Site : 63CH07-1Y Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 34
Avg.	 Site : 63CH07-1Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 34	 Site : 63CH07-1Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 34



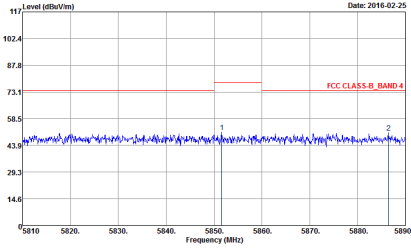
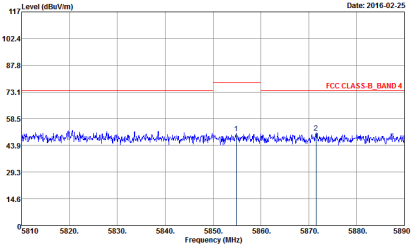
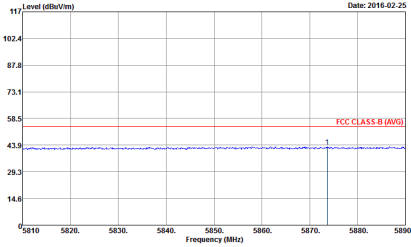
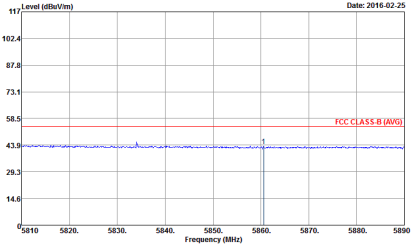
WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 34	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 34



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B, BAND 4 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 35	Site : 03CH07-HY Condition : FCC CLASS-B, BAND 4 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 35
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 : 35	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 : 35

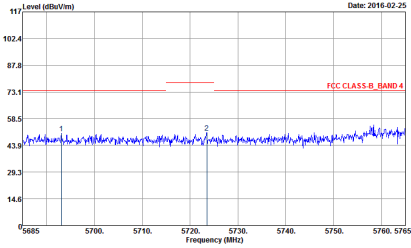
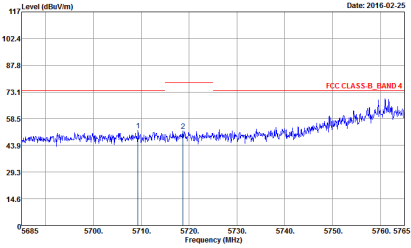
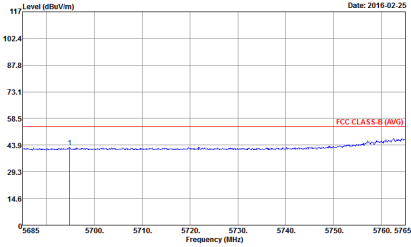
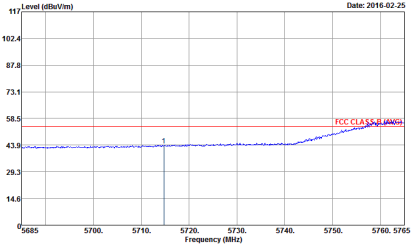


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - R	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B_BAND 4 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 35	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B_BAND 4 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 35
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B (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 : 35	 Level (dBuV/m) Frequency (MHz) Date: 2016-02-25 FCC CLASS-B (AVG) 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 : 35

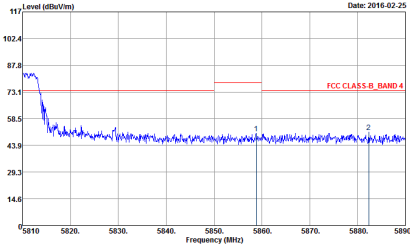
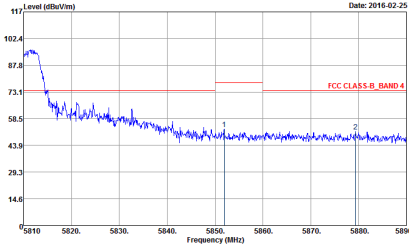
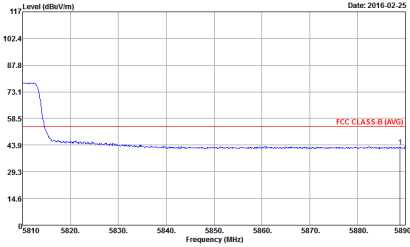
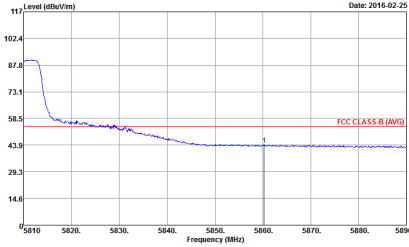


WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 35	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 620405 35



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - L	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue signal line fluctuating around a red line labeled 'FCC CLASS-B_BAND 4'. Two vertical markers labeled '1' and '2' are present. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 36	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue signal line fluctuating around a red line labeled 'FCC CLASS-B_BAND 4'. Two vertical markers labeled '1' and '2' are present. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 620405 Mode : 36
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue signal line fluctuating around a red line labeled 'FCC CLASS-B_BAND 4'. A vertical marker labeled '1' is present. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. 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 : 36	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue signal line fluctuating around a red line labeled 'FCC CLASS-B_BAND 4'. A vertical marker labeled '1' is present. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. 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 : 36



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 36	 Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 620405 Mode : 36
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 : 36	 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 : 36



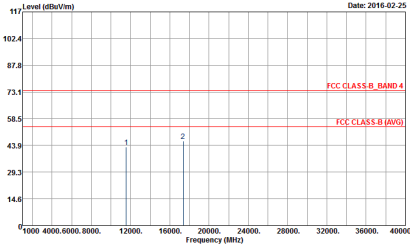
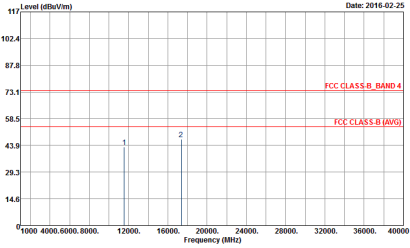
WIFI	Band 4 5725~5850MHz Fundamental @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Mode : 36	117 Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 620405 Mode : 36



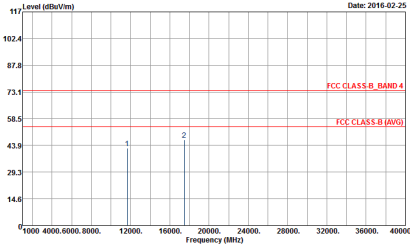
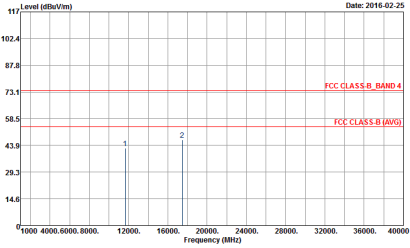
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 29	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 29



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 30	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 30



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 31	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 31



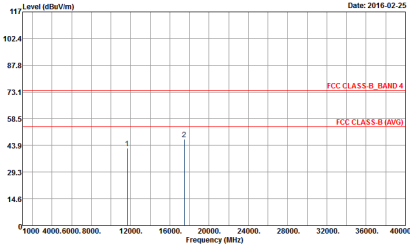
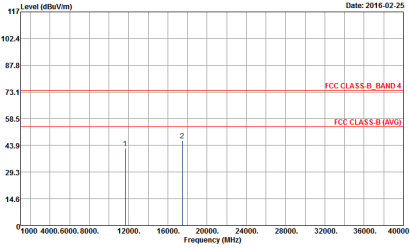
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 32	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 32



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 33	Level (dBuV/m) Date: 2016-02-25 Frequency (MHz) Site : 03CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 33



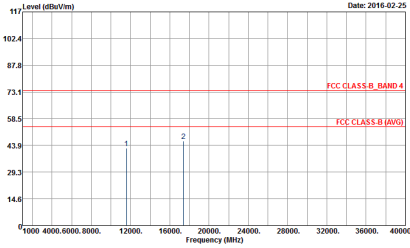
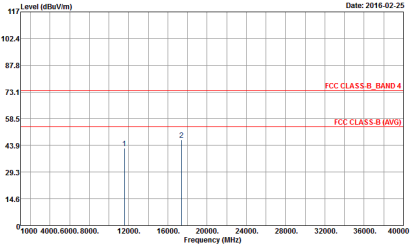
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 34	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 34



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

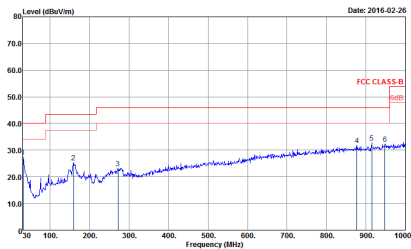
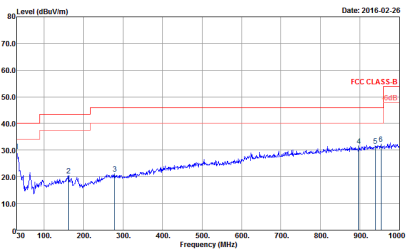
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 35	Site : 03CH07-4Y Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 35



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 620405 Mode : 36	 Site : 63CH07-HY Condition : FCC CLASS-B_BAND 4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 620405 Mode : 36

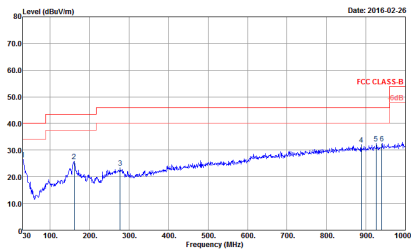
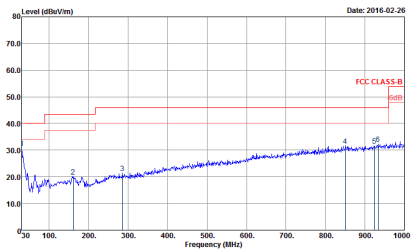


Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 620405 Mode : 37	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 620405 Mode : 37

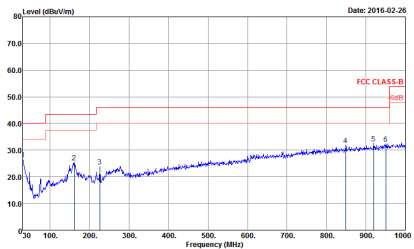
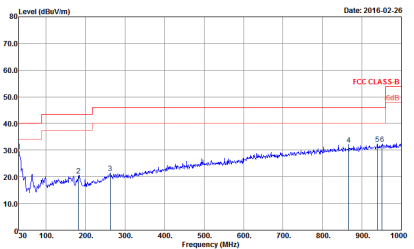


Emission below 1GHz
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT:35419(6) HORIZONTAL Detector : Peak Project : 620405 Mode : 38	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT:35419(6) VERTICAL Detector : Peak Project : 620405 Mode : 38



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

WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 620405 Mode : 39	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 620405 Mode : 39