



FCC RF Test Report

APPLICANT : Altocumulous LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : RS03QR
FCC ID : 2AHSE-2045
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was completed on Jun. 29, 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



SPORTON INTERNATIONAL INC.

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



TABLE OF CONTENTS

SUMMARY OF TEST RESULT 4

1 GENERAL DESCRIPTION 5

1.1 Applicant 5

1.2 Feature of Equipment Under Test 5

1.3 Product Specification of Equipment Under Test 5

1.4 Modification of EUT 5

1.5 Testing Location 6

1.6 Applicable Standards 6

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 7

2.1 Carrier Frequency and Channel 7

2.2 Pre-Scanned RF Power 8

2.3 Test Mode 9

2.4 Connection Diagram of Test System 10

2.5 Support Unit used in test configuration and system 11

2.6 EUT Operation Test Setup 11

2.7 Measurement Results Explanation Example 11

3 TEST RESULT 12

3.1 26dB & 99% Bandwidth Measurement 12

3.2 Maximum Conducted Output Power Measurement 14

3.3 Power Spectral Density Measurement 16

3.4 Unwanted Emissions Measurement 19

3.5 AC Conducted Emission Measurement 24

3.6 Frequency Stability Measurement 28

3.7 Automatically Discontinue Transmission 29

3.8 Antenna Requirements 31

4 LIST OF MEASURING EQUIPMENT 32

5 UNCERTAINTY OF EVALUATION 33

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. RADIATED SPURIOUS EMISSION

APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS

APPENDIX D. DUTY CYCLE PLOTS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR631725-01D	Rev. 01	Initial issue of report	Jul. 01, 2016
FR631725-01D	Rev. 02	Update report of revising AC Conducted Emission test data and RSE test data	Jul. 19, 2016



SUMMARY OF TEST RESULT

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

Altocumulous LLC

300 E. Business Way, Suite 200, Summit Woods Corporate Center Cincinnati, Ohio 45241

1.2 Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	RS03QR
FCC ID	2AHSE-2045
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 Bluetooth v4.1 EDR/LE

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification										
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz									
Maximum Output Power	<Ant. 1> 802.11a : 18.35 dBm / 0.0684 W 802.11n HT20 : 18.29 dBm / 0.0675 W 802.11n HT40 : 18.61 dBm / 0.0726 W <Ant. 2> 802.11a : 18.56 dBm / 0.0718 W 802.11n HT20 : 18.42 dBm / 0.0695 W 802.11n HT40 : 17.59 dBm / 0.0574 W									
99% Occupied Bandwidth	802.11a : 23.50 MHz 802.11n HT20 : 22.15 MHz 802.11n HT40 : 37.70 MHz									
Antenna Type / Gain	Ant. 1 : Fixed internal Antenna with gain 4.08 dBi Ant. 2 : Fixed internal Antenna with gain 3.20 dBi									
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)									
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 n</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a	V	V	802.11 n	V	V
	Ant. 1	Ant. 2								
802.11 a	V	V								
802.11 n	V	V								

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.	
	TH02-HY	CO05-HY

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

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

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

1.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02
- ♦ ANSI C63.10-2013

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



2 Test Configuration of Equipment Under Test

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).

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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240

Note: The above Frequency and Channel in "*" 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.

<Ant. 1>

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)	18.35	17.87	18.09	18.20	17.71	17.95	18.08	17.92

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	18.29	17.94	18.05	17.86	17.83	18.19	17.81	18.12

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	18.61	18.36	18.55	18.30	18.26	18.23	18.37	18.58

<Ant. 2>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	18.56	18.55	18.46	18.54	18.42	18.30	18.25	18.54

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	18.42	18.12	18.15	18.14	18.22	18.05	18.09	18.23

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	17.59	17.42	17.16	17.19	17.28	17.07	17.11	17.42



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.

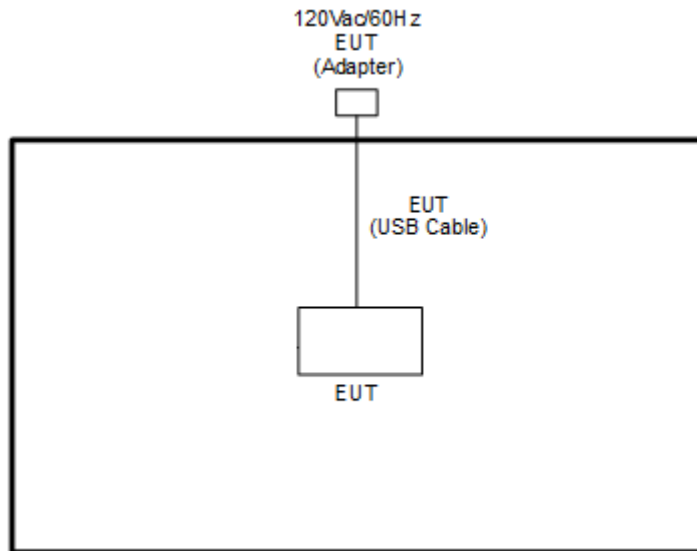
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MP3 + USB Cable (Charging from Adapter)
------------------------------	--

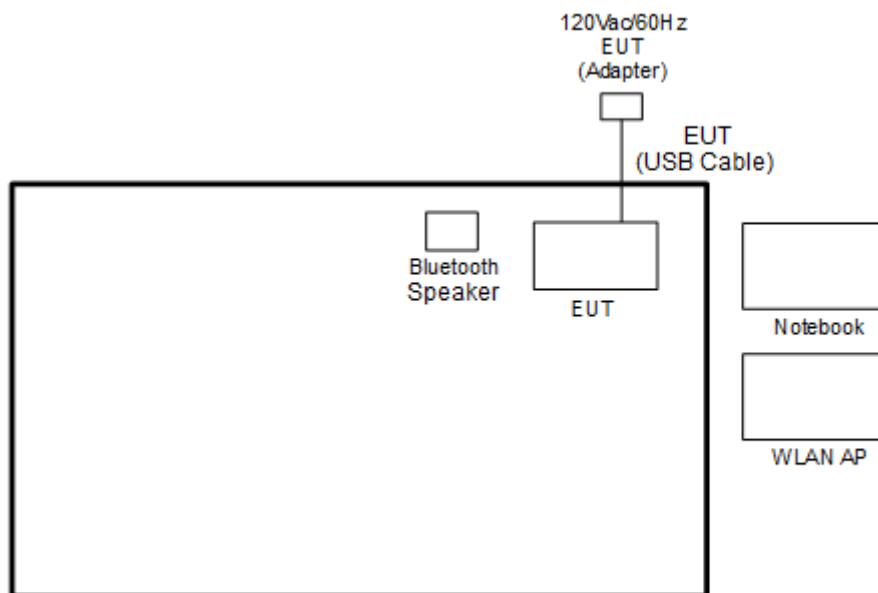
Ch. #		Band I : 5150-5250 MHz	Band I : 5150-5250 MHz	Band I : 5150-5250 MHz
		802.11a	802.11n HT20	802.11n HT40
L	Low	36	36	38
M	Middle	44	44	-
H	High	48	48	46

2.4 Connection Diagram of Test System

<WLAN Tx 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.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	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
3.	Bluetooth Speaker	JAWBONE	JAMBOX	V3J-JBE	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "Cpmpliance.exe" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

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 26dB & 99% 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.

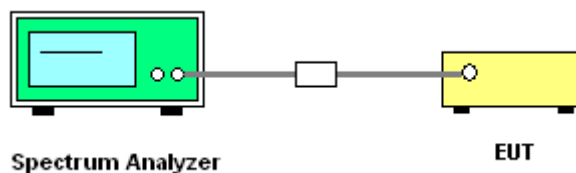
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

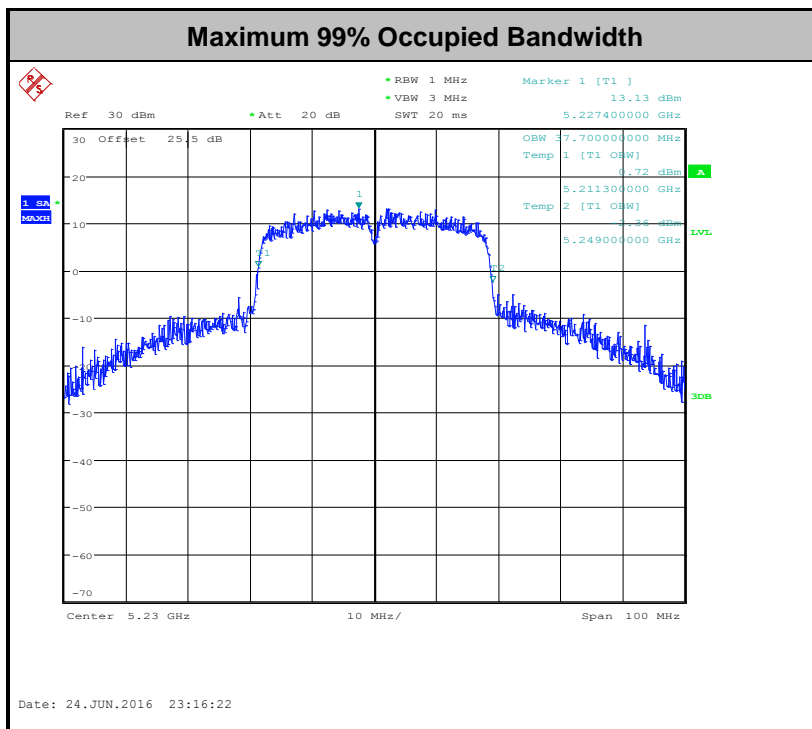
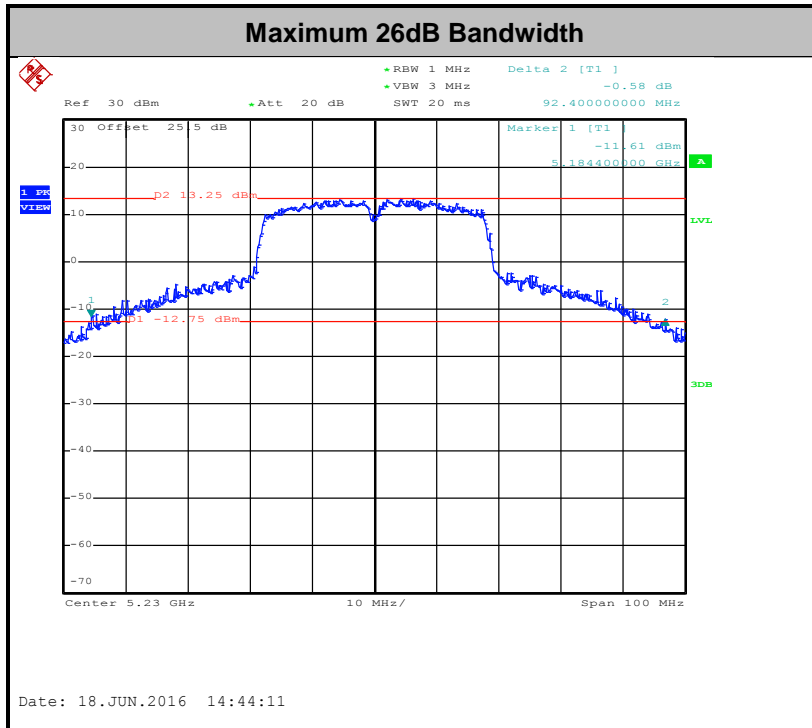
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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) $\geq 3 * RBW$.
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

Please refer to Appendix A.



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

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.

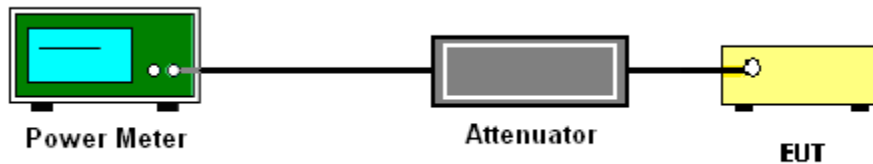
3.2.3 Test Procedures

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.

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

<FCC 14-30 CFR 15.407>

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

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

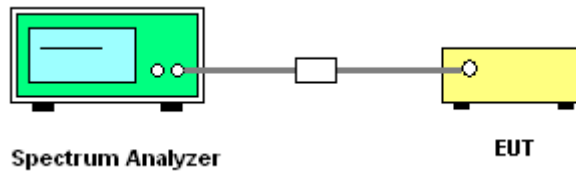
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

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 \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (1): Measure and sum the spectra across the outputs.

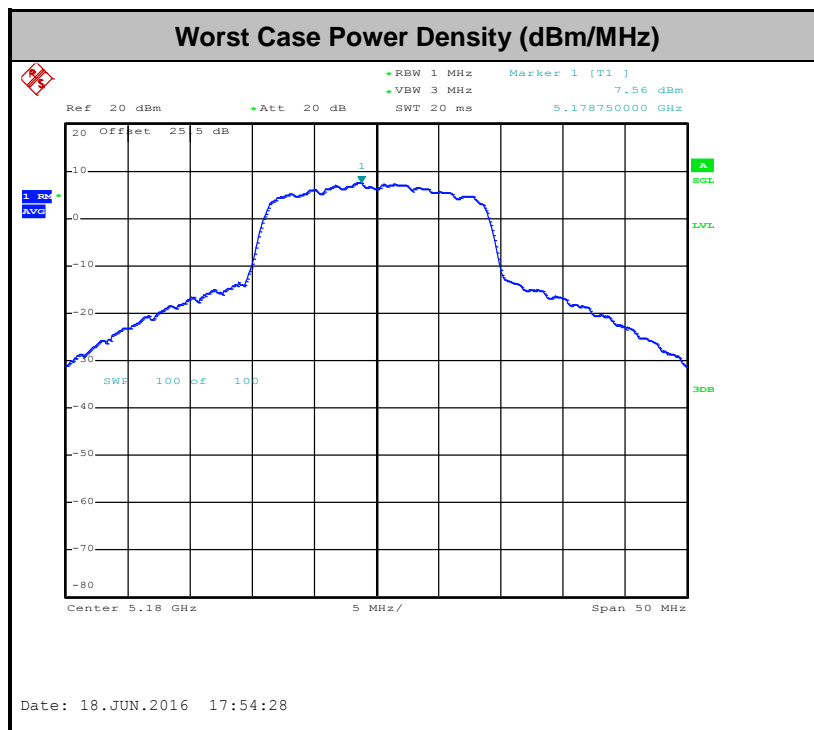
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

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 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.
- (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.

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

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 \geq 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

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



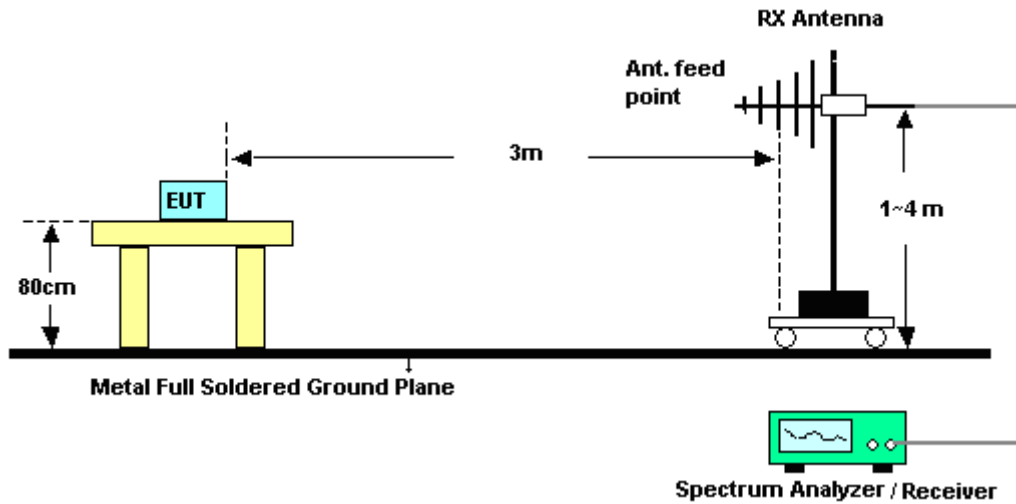
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

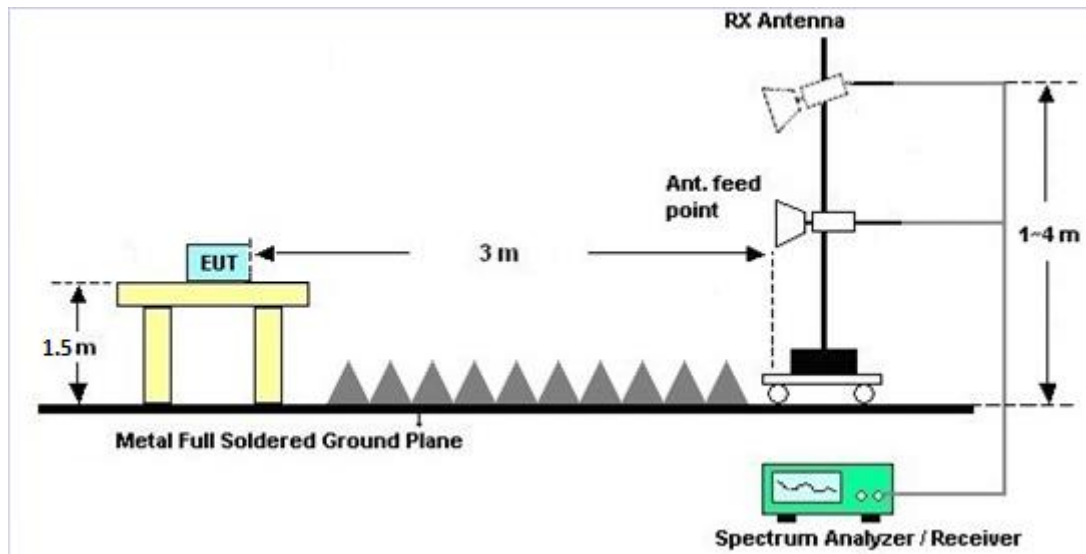
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and c.



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.

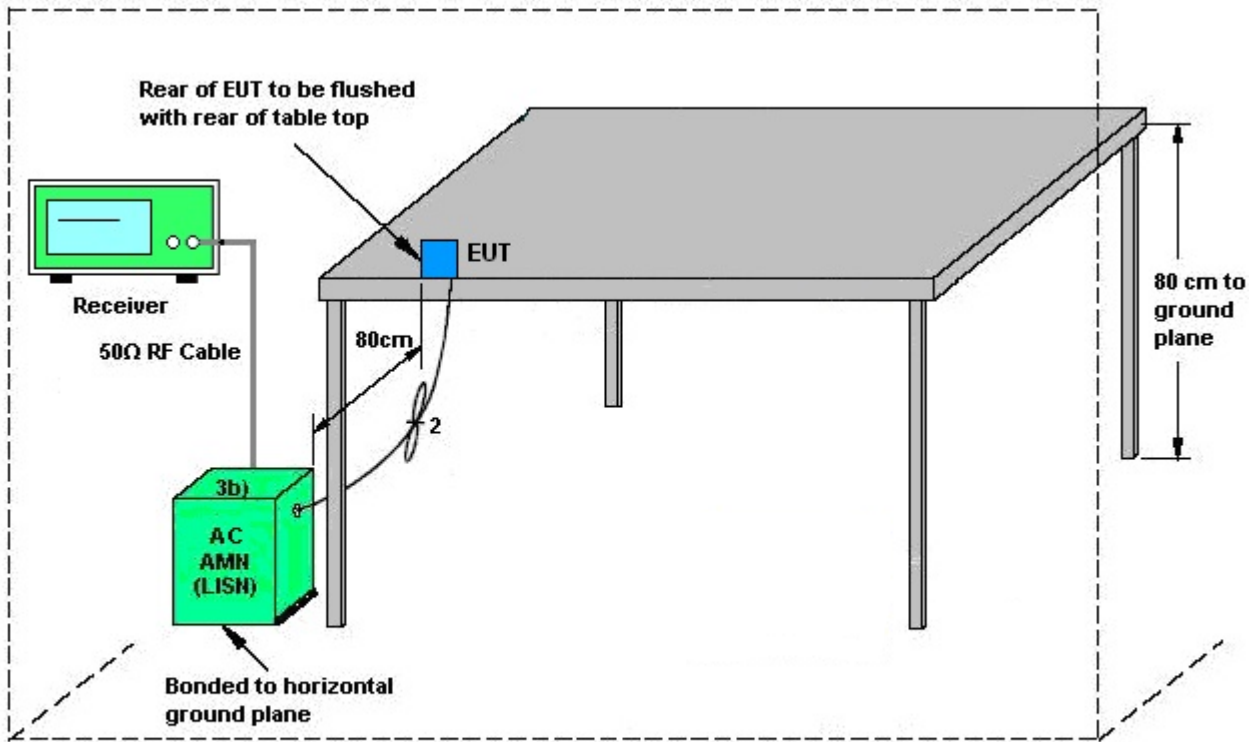
3.5.2 Measuring Instruments

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

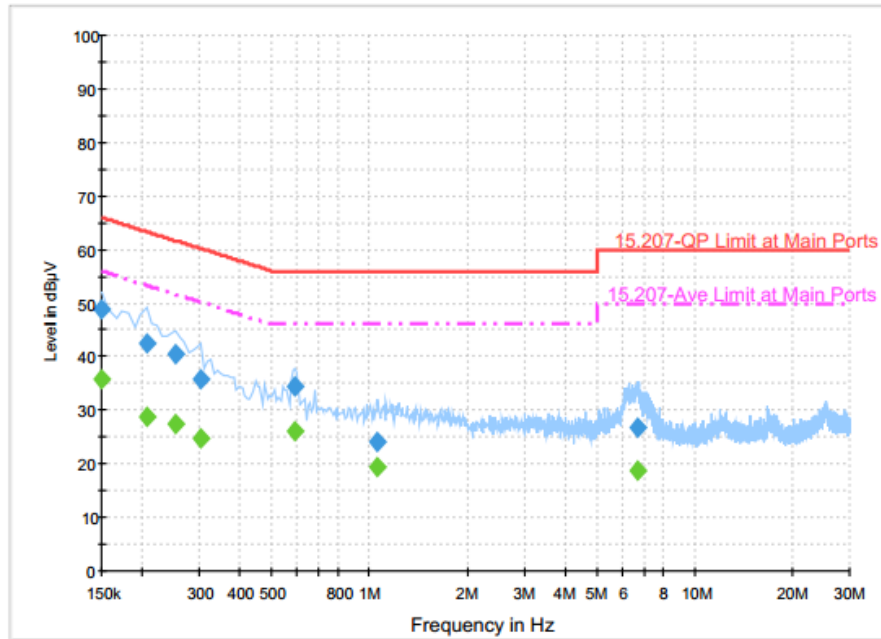


AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	49~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MP3 + USB Cable (Charging from Adapter)		



Final Result : QuasiPeak

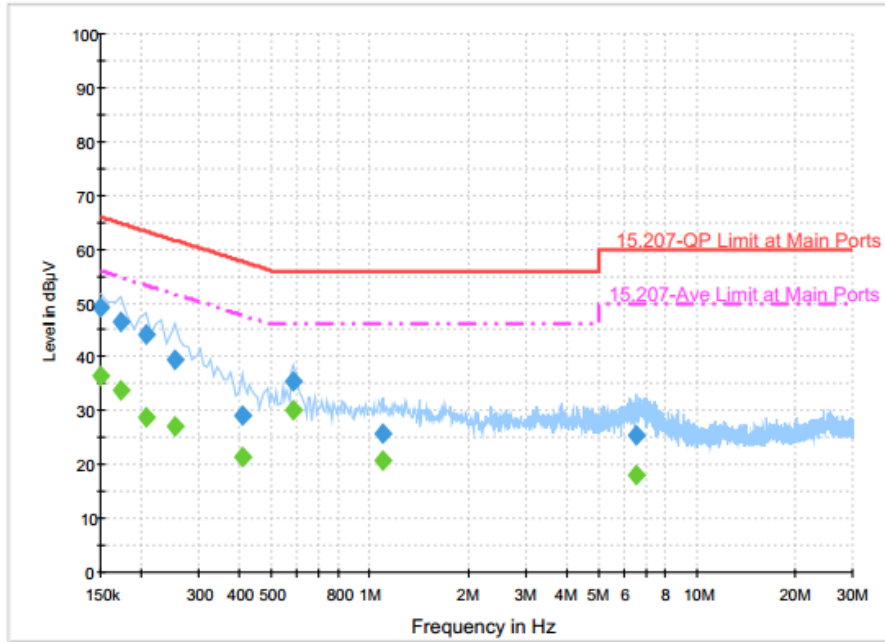
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	49.0	Off	L1	19.6	17.0	66.0
0.206000	42.6	Off	L1	19.6	20.8	63.4
0.254000	40.3	Off	L1	19.6	21.3	61.6
0.302000	35.9	Off	L1	19.6	24.3	60.2
0.590000	34.5	Off	L1	19.6	21.5	56.0
1.062000	24.0	Off	L1	19.7	32.0	56.0
6.686000	26.6	Off	L1	19.9	33.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	35.7	Off	L1	19.6	20.3	56.0
0.206000	28.8	Off	L1	19.6	24.6	53.4
0.254000	27.4	Off	L1	19.6	24.2	51.6
0.302000	24.6	Off	L1	19.6	25.6	50.2
0.590000	26.1	Off	L1	19.6	19.9	46.0
1.062000	19.5	Off	L1	19.7	26.5	46.0
6.686000	18.8	Off	L1	19.9	31.2	50.0



Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	49~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MP3 + USB Cable (Charging from Adapter)		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	49.0	Off	N	19.6	17.0	66.0
0.174000	46.4	Off	N	19.6	18.4	64.8
0.206000	44.3	Off	N	19.6	19.1	63.4
0.254000	39.6	Off	N	19.6	22.0	61.6
0.406000	29.1	Off	N	19.6	28.6	57.7
0.582000	35.5	Off	N	19.6	20.5	56.0
1.102000	25.7	Off	N	19.6	30.3	56.0
6.550000	25.4	Off	N	19.9	34.6	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.4	Off	N	19.6	19.6	56.0
0.174000	33.7	Off	N	19.6	21.1	54.8
0.206000	28.9	Off	N	19.6	24.5	53.4
0.254000	27.2	Off	N	19.6	24.4	51.6
0.406000	21.6	Off	N	19.6	26.1	47.7
0.582000	30.2	Off	N	19.6	15.8	46.0
1.102000	20.7	Off	N	19.6	25.3	46.0
6.550000	18.0	Off	N	19.9	32.0	50.0

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.

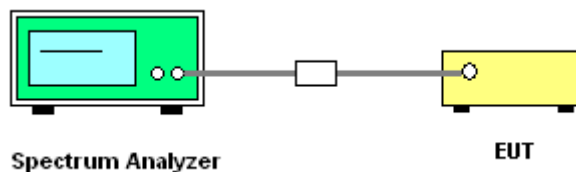
3.6.2 Measuring Instruments

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.

The frequency band 5180-5240MHz which was verified by testing against other standard is less than 20 ppm which is sufficient to maintain the signal within the 5150-5250MHz band.



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

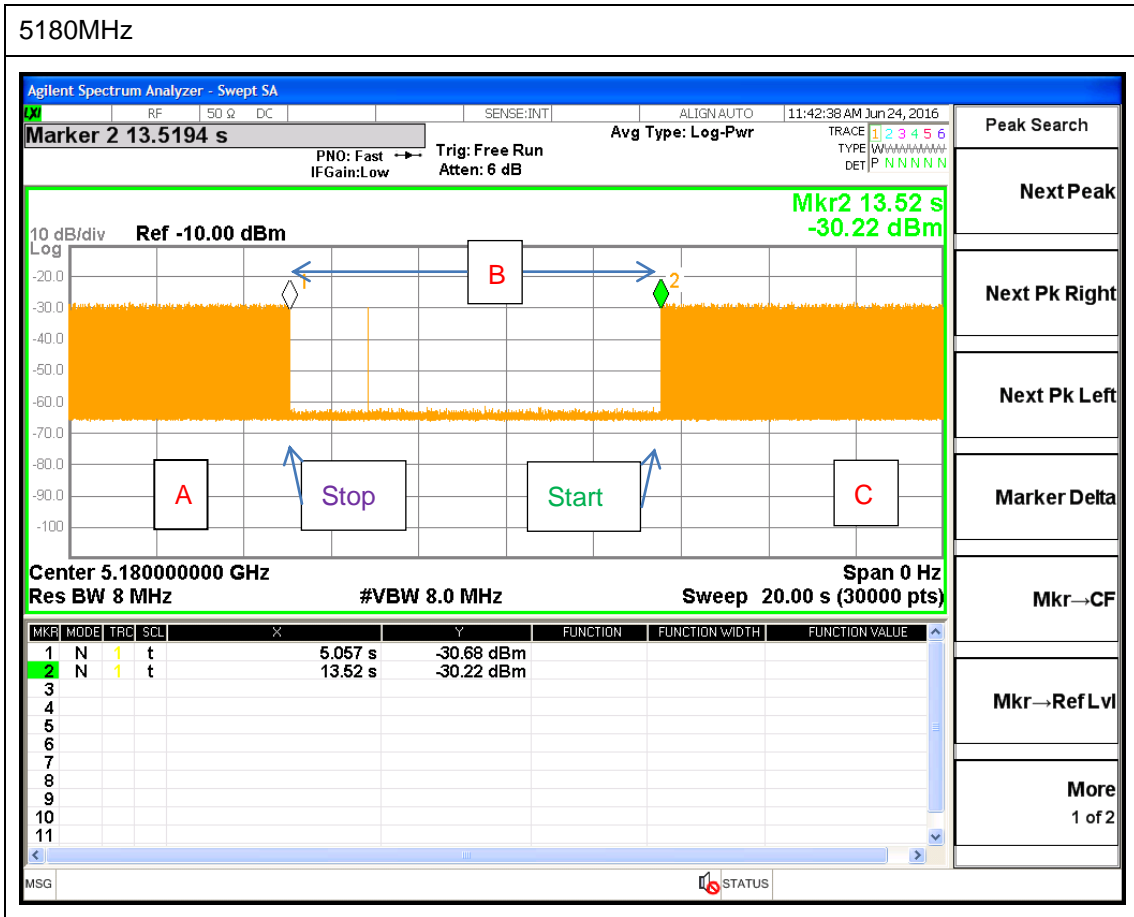
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



Note: The control / signalling information during the period B is precluded.



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
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 12, 2015	Jun. 14, 2016 ~ Jun. 24, 2016	Aug. 11, 2016	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 12, 2015	Jun. 14, 2016 ~ Jun. 24, 2016	Aug. 11, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Jun. 14, 2016 ~ Jun. 24, 2016	Nov. 22, 2016	Conducted (TH02-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	Jun. 06, 2016	Jun. 14, 2016 ~ Jun. 24, 2016	Jun. 05, 2017	Conducted (TH02-HY)
DC Power Supply	TOPWARD	3303D	740889	N/A	May 20, 2016	Jun. 14, 2016 ~ Jun. 24, 2016	May 19, 2017	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 29, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Jun. 29, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Jun. 29, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Jun. 18, 2016 ~ Jun. 21, 2016	Sep. 01, 2016	Radiation (03CH13-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Feb. 14, 2017	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	10MHz~1GHz	Dec. 31, 2015	Jun. 18, 2016 ~ Jun. 21, 2016	Dec. 30, 2016	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D	40103	30MHz to 1GHz	Jan. 13, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Jan. 12, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Mar. 09, 2017	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Apr. 24, 2017	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 30, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Jan. 29, 2017	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 14, 2016	Jun. 18, 2016 ~ Jun. 21, 2016	Mar. 13, 2017	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 18, 2016 ~ Jun. 21, 2016	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 18, 2016 ~ Jun. 21, 2016	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Jun. 18, 2016 ~ Jun. 21, 2016	Nov. 01, 2016	Radiation (03CH13-HY)



5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70
---	------



Appendix A. Conducted Test Results

Test Engineer:	osolemio Chang / Derek hsu	Temperature:	21~25	°C
Test Date:	2016/6/14~2016/6/24	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	23.50	20.70	43.80	41.90	-	-	23.01	23.01	
11a	6Mbps	1	44	5220	20.85	20.75	39.50	42.30	-	-	23.01	23.01	
11a	6Mbps	1	48	5240	18.50	19.55	41.90	40.70	-	-	22.67	22.91	
HT20	MCS0	1	36	5180	21.15	20.85	45.60	45.84	-	-	23.01	23.01	
HT20	MCS0	1	44	5220	20.85	22.15	47.04	46.32	-	-	23.01	23.01	
HT20	MCS0	1	48	5240	18.95	18.90	50.40	44.85	-	-	22.78	22.76	
HT40	MCS0	1	38	5190	36.40	36.30	62.09	61.80	-	-	23.01	23.01	
HT40	MCS0	1	46	5230	37.70	37.40	87.60	92.40	-	-	23.01	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.53	0.53	18.35	18.56		24.00	24.00	4.08	3.20	Pass
11a	6Mbps	1	44	5220	0.53	0.53	18.34	18.43		24.00	24.00	4.08	3.20	Pass
11a	6Mbps	1	48	5240	0.53	0.53	18.08	18.55		24.00	24.00	4.08	3.20	Pass
HT20	MCS0	1	36	5180	0.56	0.56	18.29	17.08		24.00	24.00	4.08	3.20	Pass
HT20	MCS0	1	44	5220	0.56	0.56	18.27	18.42		24.00	24.00	4.08	3.20	Pass
HT20	MCS0	1	48	5240	0.56	0.56	18.21	17.06		24.00	24.00	4.08	3.20	Pass
HT40	MCS0	1	38	5190	1.13	1.06	13.58	12.82		24.00	24.00	4.08	3.20	Pass
HT40	MCS0	1	46	5230	1.13	1.06	18.61	17.59		24.00	24.00	4.08	3.20	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
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.53	0.53	7.32	7.26		11.00	11.00	4.08	3.20	Pass
11a	6Mbps	1	44	5220	0.53	0.53	7.06	7.28		11.00	11.00	4.08	3.20	Pass
11a	6Mbps	1	48	5240	0.53	0.53	7.08	7.32		11.00	11.00	4.08	3.20	Pass
HT20	MCS0	1	36	5180	0.56	0.56	7.13	8.12		11.00	11.00	4.08	3.20	Pass
HT20	MCS0	1	44	5220	0.56	0.56	6.79	7.77		11.00	11.00	4.08	3.20	Pass
HT20	MCS0	1	48	5240	0.56	0.56	6.70	7.69		11.00	11.00	4.08	3.20	Pass
HT40	MCS0	1	38	5190	1.13	1.06	0.25	-1.80		11.00	11.00	4.08	3.20	Pass
HT40	MCS0	1	46	5230	1.13	1.06	3.95	5.00		11.00	11.00	4.08	3.20	Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.5	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	5.2	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	5	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	0	5	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	35	5	



Appendix B. Radiated Spurious Emission

Test Engineer :	Alex Jheng , Bill Chang, and Elvis Chen	Temperature :	20~24°C
		Relative Humidity :	45~50%

Band 1 - 5150~5250MHz

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 36 5180MHz		5150	58.02	-15.98	74	46.1	31.62	11.21	30.91	103	91	P	H	
		5150	49.27	-4.73	54	37.35	31.62	11.21	30.91	103	91	A	H	
	*	5180	111.03	-	-	99.08	31.65	11.21	30.91	103	91	P	H	
	*	5180	104.74	-	-	92.79	31.65	11.21	30.91	103	91	A	H	
													H	
														H
			5149	58.8	-15.2	74	46.88	31.62	11.21	30.91	103	156	P	V
			5148.75	50.08	-3.92	54	38.16	31.62	11.21	30.91	103	156	A	V
	*		5180	111.75	-	-	99.8	31.65	11.21	30.91	103	156	P	V
	*		5180	104.89	-	-	92.94	31.65	11.21	30.91	103	156	A	V
														V
														V
802.11a CH 44 5220MHz		5147.94	55.37	-18.63	74	43.45	31.62	11.21	30.91	100	91	P	H	
		5140.14	47.11	-6.89	54	35.18	31.62	11.21	30.9	100	91	A	H	
	*	5220	110.91	-	-	98.9	31.67	11.25	30.91	100	91	P	H	
	*	5220	103.99	-	-	91.98	31.67	11.25	30.91	100	91	A	H	
		5375.34	51.16	-22.84	74	38.54	31.79	11.76	30.93	100	91	P	H	
		5373	44.83	-9.17	54	32.21	31.79	11.76	30.93	100	91	A	H	
		5003.64	53.61	-20.39	74	41.92	31.51	11.07	30.89	100	156	P	V	
		5140.14	46.52	-7.48	54	34.59	31.62	11.21	30.9	100	156	A	V	
	*	5222	111.58	-	-	99.44	31.67	11.38	30.91	100	156	P	V	
	*	5222	105.34	-	-	93.2	31.67	11.38	30.91	100	156	A	V	
		5372.46	53.51	-20.49	74	40.89	31.79	11.76	30.93	100	156	P	V	
		5372.46	45.86	-8.14	54	33.24	31.79	11.76	30.93	100	156	A	V	



802.11a CH 48 5240MHz		5147.16	53.46	-20.54	74	41.54	31.62	11.21	30.91	100	96	P	H
		5087.36	44.83	-9.17	54	33.02	31.57	11.14	30.9	100	96	A	H
	*	5242	111.13	-	-	98.96	31.7	11.38	30.91	100	96	P	H
	*	5242	104.93	-	-	92.76	31.7	11.38	30.91	100	96	A	H
		5371.56	53.93	-20.07	74	41.31	31.79	11.76	30.93	100	96	P	H
		5392.44	45.15	-8.85	54	32.38	31.81	11.89	30.93	100	96	A	H
		5003.64	53.83	-20.17	74	42.14	31.51	11.07	30.89	100	160	P	V
		5149.24	44.77	-9.23	54	32.85	31.62	11.21	30.91	100	160	A	V
	*	5242	111.18	-	-	99.01	31.7	11.38	30.91	100	160	P	V
	*	5242	105.33	-	-	93.16	31.7	11.38	30.91	100	160	A	V
		5394.42	53.13	-20.87	74	40.36	31.81	11.89	30.93	100	160	P	V
		5392.44	46.25	-7.75	54	33.48	31.81	11.89	30.93	100	160	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	48.81	-25.19	74	42.95	39.59	17.17	50.9	100	0	P	H
		15540	47.98	-26.02	74	41.53	38.75	19.61	51.91	100	0	P	H
													H
													H
		10360	46.98	-27.02	74	41.12	39.59	17.17	50.9	100	0	P	V
		15540	47.1	-26.9	74	40.65	38.75	19.61	51.91	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48	-26	74	42.04	39.69	17.17	50.9	100	0	P	H
		15660	48.15	-25.85	74	41.82	38.58	19.68	51.93	100	0	P	H
													H
													H
		10440	47.25	-26.75	74	41.29	39.69	17.17	50.9	100	0	P	V
		15660	47.75	-26.25	74	41.42	38.58	19.68	51.93	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	48.22	-25.78	74	42.18	39.77	17.17	50.9	100	0	P	H
		15720	46.87	-27.13	74	40.6	38.49	19.73	51.95	100	0	P	H
													H
													H
		10480	48.56	-25.44	74	42.52	39.77	17.17	50.9	100	0	P	V
		15720	46.76	-27.24	74	40.49	38.49	19.73	51.95	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 36 5180MHz		5146.25	60.82	-13.18	74	48.9	31.62	11.21	30.91	107	91	P	H	
		5149	51.45	-2.55	54	39.53	31.62	11.21	30.91	107	91	A	H	
	*	5180	110.65	-	-	98.7	31.65	11.21	30.91	107	91	P	H	
	*	5180	103.56	-	-	91.61	31.65	11.21	30.91	107	91	A	H	
													H	
													H	
			5150	56.88	-17.12	74	44.96	31.62	11.21	30.91	103	156	P	V
			5149.75	51.69	-2.31	54	39.77	31.62	11.21	30.91	103	156	A	V
		*	5180	110.35	-	-	98.4	31.65	11.21	30.91	103	156	P	V
		*	5180	104.21	-	-	92.26	31.65	11.21	30.91	103	156	A	V
													V	
													V	
802.11n HT20 CH 44 5220MHz		5147.16	54.42	-19.58	74	42.5	31.62	11.21	30.91	100	91	P	H	
		5139.88	47.56	-6.44	54	35.66	31.62	11.18	30.9	100	91	A	H	
	*	5222	110.6	-	-	98.46	31.67	11.38	30.91	100	91	P	H	
	*	5222	102.42	-	-	90.28	31.67	11.38	30.91	100	91	A	H	
			5373.18	51.78	-22.22	74	39.16	31.79	11.76	30.93	100	91	P	H
			5371.92	45.18	-8.82	54	32.56	31.79	11.76	30.93	100	91	A	H
			5139.1	54.28	-19.72	74	42.39	31.61	11.18	30.9	100	155	P	V
			5139.88	46.74	-7.26	54	34.84	31.62	11.18	30.9	100	155	A	V
		*	5222	110.86	-	-	98.72	31.67	11.38	30.91	100	155	P	V
		*	5222	102.57	-	-	90.43	31.67	11.38	30.91	100	155	A	V
		5376.78	52.02	-21.98	74	39.4	31.79	11.76	30.93	100	155	P	V	
		5372.1	45.85	-8.15	54	33.23	31.79	11.76	30.93	100	155	A	V	



802.11n HT20 CH 48 5240MHz		5140.4	53.55	-20.45	74	41.62	31.62	11.21	30.9	100	90	P	H
		5147.42	44.59	-9.41	54	32.67	31.62	11.21	30.91	100	90	A	H
	*	5238	109.74	-	-	97.58	31.69	11.38	30.91	100	90	P	H
	*	5238	103.78	-	-	91.62	31.69	11.38	30.91	100	90	A	H
		5364	53.13	-20.87	74	40.51	31.79	11.76	30.93	100	90	P	H
		5391.72	45.57	-8.43	54	32.8	31.81	11.89	30.93	100	90	A	H
		5083.72	52.79	-21.21	74	40.98	31.57	11.14	30.9	100	156	P	V
		5087.88	44.82	-9.18	54	33.01	31.57	11.14	30.9	100	156	A	V
	*	5242	111.35	-	-	99.18	31.7	11.38	30.91	100	156	P	V
	*	5242	103.78	-	-	91.61	31.7	11.38	30.91	100	156	A	V
		5392.08	52.19	-21.81	74	39.42	31.81	11.89	30.93	100	156	P	V
		5392.26	46.11	-7.89	54	33.34	31.81	11.89	30.93	100	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 36 5180MHz		10360	46.4	-27.6	74	40.54	39.59	17.17	50.9	100	0	P	H	
		15540	47.02	-26.98	74	40.57	38.75	19.61	51.91	100	0	P	H	
													H	
													H	
			10360	47.03	-26.97	74	41.17	39.59	17.17	50.9	100	0	P	V
			15540	46.96	-27.04	74	40.51	38.75	19.61	51.91	100	0	P	V
														V
802.11n HT20 CH 44 5220MHz		10440	47.58	-26.42	74	41.62	39.69	17.17	50.9	100	0	P	H	
		15660	47.17	-26.83	74	40.84	38.58	19.68	51.93	100	0	P	H	
													H	
													H	
			10440	46.82	-27.18	74	40.86	39.69	17.17	50.9	100	0	P	V
			15660	46.49	-27.51	74	40.16	38.58	19.68	51.93	100	0	P	V
														V
802.11n HT20 CH 48 5240MHz		10480	48.13	-25.87	74	42.09	39.77	17.17	50.9	100	0	P	H	
		15720	47.08	-26.92	74	40.81	38.49	19.73	51.95	100	0	P	H	
													H	
													H	
			10480	48.16	-25.84	74	42.12	39.77	17.17	50.9	100	0	P	V
			15720	47.54	-26.46	74	41.27	38.49	19.73	51.95	100	0	P	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		5150	59.95	-14.05	74	48.03	31.62	11.21	30.91	104	91	P	H	
		5149.76	53.07	-0.93	54	41.15	31.62	11.21	30.91	104	91	A	H	
	*	5192	102.52	-	-	90.52	31.66	11.25	30.91	104	91	P	H	
	*	5192	94.27	-	-	82.27	31.66	11.25	30.91	104	91	A	H	
		5364	51.64	-22.36	74	39.02	31.79	11.76	30.93	104	91	P	H	
		5365.8	44.03	-9.97	54	31.41	31.79	11.76	30.93	104	91	A	H	
		5149.76	60.69	-13.31	74	48.77	31.62	11.21	30.91	100	156	P	V	
		5150	52.65	-1.35	54	40.73	31.62	11.21	30.91	100	156	A	V	
	*	5188	102.53	-	-	90.54	31.65	11.25	30.91	100	156	P	V	
	*	5188	96.07	-	-	84.08	31.65	11.25	30.91	100	156	A	V	
		5367.42	51.28	-22.72	74	38.66	31.79	11.76	30.93	100	156	P	V	
		5363.82	44.27	-9.73	54	31.65	31.79	11.76	30.93	100	156	A	V	
	802.11n HT40 CH 46 5230MHz		5139.36	56.76	-17.24	74	44.87	31.61	11.18	30.9	100	90	P	H
			5146.38	46.73	-7.27	54	34.81	31.62	11.21	30.91	100	90	A	H
*		5228	108.21	-	-	96.05	31.69	11.38	30.91	100	90	P	H	
*		5228	100.69	-	-	88.53	31.69	11.38	30.91	100	90	A	H	
		5380.2	53.54	-20.46	74	40.77	31.81	11.89	30.93	100	90	P	H	
		5379.12	46.57	-7.43	54	33.93	31.81	11.76	30.93	100	90	A	H	
		5143.52	53.88	-20.12	74	41.95	31.62	11.21	30.9	100	154	P	V	
		5147.68	46.53	-7.47	54	34.61	31.62	11.21	30.91	100	154	A	V	
*		5232	108.62	-	-	96.46	31.69	11.38	30.91	100	154	P	V	
*		5232	100.79	-	-	88.63	31.69	11.38	30.91	100	154	A	V	
	5376.96	53.32	-20.68	74	40.7	31.79	11.76	30.93	100	154	P	V		
	5376.42	46.84	-7.16	54	34.22	31.79	11.76	30.93	100	154	A	V		
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT40 CH 38 5190MHz		10380	47.4	-26.6	74	41.52	39.61	17.17	50.9	100	0	P	H	
		15570	47.19	-26.81	74	40.78	38.7	19.63	51.92	100	0	P	H	
													H	
													H	
			10380	47.94	-26.06	74	42.06	39.61	17.17	50.9	100	0	P	V
			15570	47.01	-26.99	74	40.6	38.7	19.63	51.92	100	0	P	V
														V
802.11n HT40 CH 46 5230MHz		10460	48.5	-25.5	74	42.51	39.72	17.17	50.9	100	0	P	H	
		15690	48.13	-25.87	74	41.84	38.53	19.7	51.94	100	0	P	H	
													H	
													H	
			10460	48.87	-25.13	74	42.88	39.72	17.17	50.9	100	0	P	V
			15690	48.39	-25.61	74	42.1	38.53	19.7	51.94	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Band 1 5150~5250MHz

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT40 LF		75.36	27.05	-12.95	40	44.96	13.11	0.89	31.91			P	H	
		127.47	31.96	-11.54	43.5	45	17.64	1.19	31.87	130	55	P	H	
		199.02	25.38	-18.12	43.5	40.29	15.4	1.5	31.81			P	H	
		423.2	22.82	-23.18	46	29.79	22.52	2.29	31.78			P	H	
		654.2	26.47	-19.53	46	29.8	25.74	2.92	31.99			P	H	
		953.8	31.69	-14.31	46	29.21	30.12	3.45	31.09			P	H	
														H
														H
														H
														H
														H
														H
			42.15	34.69	-5.31	40	47.45	18.52	0.65	31.93	135	25	P	V
			85.89	33.74	-6.26	40	50.29	14.36	0.99	31.9			P	V
			127.47	32.71	-10.79	43.5	45.75	17.64	1.19	31.87			P	V
			455.4	23.68	-22.32	46	30.09	23.03	2.38	31.82			P	V
			672.4	27.36	-18.64	46	30.54	25.88	2.95	32.01			P	V
			901.3	30.78	-15.22	46	29.95	28.92	3.44	31.53			P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Band 1 - 5150~5250MHz

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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 36 5180MHz		5148.5	64.9	-9.1	74	52.98	31.62	11.21	30.91	100	266	P	H	
		5150	51.43	-2.57	54	39.51	31.62	11.21	30.91	100	266	A	H	
	*	5180	110.52	-	-	98.57	31.65	11.21	30.91	100	266	P	H	
	*	5180	103.58	-	-	91.63	31.65	11.21	30.91	100	266	A	H	
													H	
													H	
			5150	67.42	-6.58	74	55.5	31.62	11.21	30.91	107	298	P	V
			5150	53.02	-0.98	54	41.1	31.62	11.21	30.91	107	298	A	V
	*		5180	111.46	-	-	99.51	31.65	11.21	30.91	107	298	P	V
	*		5180	104.5	-	-	92.55	31.65	11.21	30.91	107	298	A	V
														V
														V
802.11a CH 44 5220MHz		5146.38	53.08	-20.92	74	41.16	31.62	11.21	30.91	100	267	P	H	
		5140.14	46.26	-7.74	54	34.33	31.62	11.21	30.9	100	267	A	H	
	*	5218	110.42	-	-	98.41	31.67	11.25	30.91	100	267	P	H	
	*	5218	103.22	-	-	91.21	31.67	11.25	30.91	100	267	A	H	
			5374.08	52.1	-21.9	74	39.48	31.79	11.76	30.93	100	267	P	H
			5372.46	44.81	-9.19	54	32.19	31.79	11.76	30.93	100	267	A	H
			5140.4	54.23	-19.77	74	42.3	31.62	11.21	30.9	100	299	P	V
			5140.14	47.56	-6.44	54	35.63	31.62	11.21	30.9	100	299	A	V
	*		5222	110.54	-	-	98.4	31.67	11.38	30.91	100	299	P	V
	*		5222	104.22	-	-	92.08	31.67	11.38	30.91	100	299	A	V
			5351.94	52.54	-21.46	74	39.93	31.78	11.76	30.93	100	299	P	V
			5372.46	45.1	-8.9	54	32.48	31.79	11.76	30.93	100	299	A	V



802.11a CH 48 5240MHz		5110.76	52.95	-21.05	74	41.08	31.59	11.18	30.9	100	266	P	H
		5148.72	44.2	-9.8	54	32.28	31.62	11.21	30.91	100	266	A	H
	*	5242	111.01	-	-	98.84	31.7	11.38	30.91	100	266	P	H
	*	5242	103.54	-	-	91.37	31.7	11.38	30.91	100	266	A	H
		5386.32	52.21	-21.79	74	39.44	31.81	11.89	30.93	100	266	P	H
		5392.98	44.8	-9.2	54	32.03	31.81	11.89	30.93	100	266	A	H
		5136.76	54.31	-19.69	74	42.42	31.61	11.18	30.9	100	298	P	V
		5149.5	45.17	-8.83	54	33.25	31.62	11.21	30.91	100	298	A	V
	*	5242	111.87	-	-	99.7	31.7	11.38	30.91	100	298	P	V
	*	5242	103.49	-	-	91.32	31.7	11.38	30.91	100	298	A	V
		5355.18	51.91	-22.09	74	39.3	31.78	11.76	30.93	100	298	P	V
		5392.62	44.84	-9.16	54	32.07	31.81	11.89	30.93	100	298	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	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	47.7	-26.3	74	41.84	39.59	17.17	50.9	100	0	P	H
		15540	48.02	-25.98	74	41.57	38.75	19.61	51.91	100	0	P	H
													H
													H
		10360	48.61	-25.39	74	42.75	39.59	17.17	50.9	100	0	P	V
		15540	48.6	-25.4	74	42.15	38.75	19.61	51.91	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48.01	-25.99	74	42.05	39.69	17.17	50.9	100	0	P	H
		15660	48.33	-25.67	74	42	38.58	19.68	51.93	100	0	P	H
													H
													H
		10440	48.26	-25.74	74	42.3	39.69	17.17	50.9	100	0	P	V
		15660	48.63	-25.37	74	42.3	38.58	19.68	51.93	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	48.08	-25.92	74	42.04	39.77	17.17	50.9	100	0	P	H
		15720	48.37	-25.63	74	42.1	38.49	19.73	51.95	100	0	P	H
													H
													H
		10480	48.55	-25.45	74	42.51	39.77	17.17	50.9	100	0	P	V
		15720	47.5	-26.5	74	41.23	38.49	19.73	51.95	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 36 5180MHz		5148	58.74	-15.26	74	46.82	31.62	11.21	30.91	100	267	P	H	
		5149.5	49.67	-4.33	54	37.75	31.62	11.21	30.91	100	267	A	H	
	*	5180	108.26	-	-	96.31	31.65	11.21	30.91	100	267	P	H	
	*	5180	101.82	-	-	89.87	31.65	11.21	30.91	100	267	A	H	
													H	
													H	
			5147.25	59.47	-14.53	74	47.55	31.62	11.21	30.91	100	291	P	V
			5149.5	52.03	-1.97	54	40.11	31.62	11.21	30.91	100	291	A	V
		*	5180	109.91	-	-	97.96	31.65	11.21	30.91	100	291	P	V
		*	5180	103.43	-	-	91.48	31.65	11.21	30.91	100	291	A	V
													V	
													V	
802.11n HT20 CH 44 5220MHz		5140.4	55.17	-18.83	74	43.24	31.62	11.21	30.9	100	266	P	H	
		5139.88	46.29	-7.71	54	34.39	31.62	11.18	30.9	100	266	A	H	
		*	5220	109.22	-	-	97.21	31.67	11.25	30.91	100	266	P	H
		*	5220	104.11	-	-	92.1	31.67	11.25	30.91	100	266	A	H
			5388.84	52.07	-21.93	74	39.3	31.81	11.89	30.93	100	266	P	H
			5371.56	44.89	-9.11	54	32.27	31.79	11.76	30.93	100	266	A	H
			5134.68	54.38	-19.62	74	42.49	31.61	11.18	30.9	105	290	P	V
			5140.14	47.53	-6.47	54	35.6	31.62	11.21	30.9	105	290	A	V
		*	5220	111.17	-	-	99.16	31.67	11.25	30.91	105	290	P	V
		*	5220	105.29	-	-	93.28	31.67	11.25	30.91	105	290	A	V
		5383.62	52.27	-21.73	74	39.5	31.81	11.89	30.93	105	290	P	V	
		5371.92	45.28	-8.72	54	32.66	31.79	11.76	30.93	105	290	A	V	



802.11n HT20 CH 48 5240MHz		5107.12	52.67	-21.33	74	40.8	31.59	11.18	30.9	100	266	P	H
		5088.14	44.52	-9.48	54	32.71	31.57	11.14	30.9	100	266	A	H
	*	5242	110.69	-	-	98.52	31.7	11.38	30.91	100	266	P	H
	*	5242	104.11	-	-	91.94	31.7	11.38	30.91	100	266	A	H
		5375.34	52.36	-21.64	74	39.74	31.79	11.76	30.93	100	266	P	H
		5391.9	45.19	-8.81	54	32.42	31.81	11.89	30.93	100	266	A	H
		5142.22	53.65	-20.35	74	41.72	31.62	11.21	30.9	100	291	P	V
		5088.14	45.39	-8.61	54	33.58	31.57	11.14	30.9	100	291	A	V
	*	5238	111.66	-	-	99.5	31.69	11.38	30.91	100	291	P	V
	*	5238	104.91	-	-	92.75	31.69	11.38	30.91	100	291	A	V
		5392.44	52.34	-21.66	74	39.57	31.81	11.89	30.93	100	291	P	V
	5391.9	45.29	-8.71	54	32.52	31.81	11.89	30.93	100	291	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 36 5180MHz		10360	48.54	-25.46	74	42.68	39.59	17.17	50.9	100	0	P	H	
		15540	48.57	-25.43	74	42.12	38.75	19.61	51.91	100	0	P	H	
													H	
													H	
			10360	48.25	-25.75	74	42.39	39.59	17.17	50.9	100	0	P	V
			15540	48.3	-25.7	74	41.85	38.75	19.61	51.91	100	0	P	V
														V
802.11n HT20 CH 44 5220MHz		10440	48.37	-25.63	74	42.41	39.69	17.17	50.9	100	0	P	H	
		15660	48.66	-25.34	74	42.33	38.58	19.68	51.93	100	0	P	H	
													H	
													H	
			10440	48.89	-25.11	74	42.93	39.69	17.17	50.9	100	0	P	V
			15660	47.9	-26.1	74	41.57	38.58	19.68	51.93	100	0	P	V
														V
802.11n HT20 CH 48 5240MHz		10480	48.01	-25.99	74	41.97	39.77	17.17	50.9	100	0	P	H	
		15720	48.91	-25.09	74	42.64	38.49	19.73	51.95	100	0	P	H	
													H	
													H	
			10480	48.32	-25.68	74	42.28	39.77	17.17	50.9	100	0	P	V
			15720	48.26	-25.74	74	41.99	38.49	19.73	51.95	100	0	P	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.72	57.33	-16.67	74	45.41	31.62	11.21	30.91	100	262	P	H
		5150	51.81	-2.19	54	39.89	31.62	11.21	30.91	100	262	P	H
	*	5188	100.94	-	-	88.95	31.65	11.25	30.91	100	262	P	H
	*	5188	93.74	-	-	81.75	31.65	11.25	30.91	100	262	A	H
		5352.48	50.43	-23.57	74	37.82	31.78	11.76	30.93	100	262	P	H
		5380.02	43.7	-10.3	54	30.93	31.81	11.89	30.93	100	262	A	H
		5146.9	58.34	-15.66	74	46.42	31.62	11.21	30.91	100	293	P	V
		5150	52.56	-1.44	54	40.64	31.62	11.21	30.91	100	293	A	V
	*	5192	101.33	-	-	89.33	31.66	11.25	30.91	100	293	P	V
	*	5192	95.2	-	-	83.2	31.66	11.25	30.91	100	293	A	V
		5358.96	50.16	-23.84	74	37.55	31.78	11.76	30.93	100	293	P	V
		5385.78	43.32	-10.68	54	30.55	31.81	11.89	30.93	100	293	A	V
802.11n HT40 CH 46 5230MHz		5148	58.81	-15.19	74	46.89	31.62	11.21	30.91	100	269	P	H
		5150	46.32	-7.68	54	34.4	31.62	11.21	30.91	100	269	A	H
	*	5232	107.03	-	-	94.87	31.69	11.38	30.91	100	269	P	H
	*	5232	100.05	-	-	87.89	31.69	11.38	30.91	100	269	A	H
		5351.04	53.64	-20.36	74	41.03	31.78	11.76	30.93	100	269	P	H
		5378.58	45.78	-8.22	54	33.14	31.81	11.76	30.93	100	269	A	H
		5148	54.29	-19.71	74	42.37	31.62	11.21	30.91	108	298	P	V
		5150	47.7	-6.3	54	35.78	31.62	11.21	30.91	108	298	A	V
	*	5232	108	-	-	95.84	31.69	11.38	30.91	108	298	P	V
	*	5232	100.75	-	-	88.59	31.69	11.38	30.91	108	298	A	V
	5364.18	52.56	-21.44	74	39.94	31.79	11.76	30.93	108	298	P	V	
	5376.96	45.65	-8.35	54	33.03	31.79	11.76	30.93	108	298	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT40 CH 38 5190MHz		10380	47.11	-26.89	74	41.23	39.61	17.17	50.9	100	0	P	H	
		15570	48.54	-25.46	74	42.13	38.7	19.63	51.92	100	0	P	H	
													H	
													H	
			10380	48.59	-25.41	74	42.71	39.61	17.17	50.9	100	0	P	V
			15570	48.76	-25.24	74	42.35	38.7	19.63	51.92	100	0	P	V
														V
802.11n HT40 CH 46 5230MHz		10460	48.16	-25.84	74	42.17	39.72	17.17	50.9	100	0	P	H	
		15690	47.36	-26.64	74	41.07	38.53	19.7	51.94	100	0	P	H	
													H	
													H	
			10460	47.19	-26.81	74	41.2	39.72	17.17	50.9	100	0	P	V
			15690	47.78	-26.22	74	41.49	38.53	19.7	51.94	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz

WIFI 802.11n 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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 LF		87.24	31.78	-8.22	40	48.21	14.47	1	31.9	125	20	P	H	
		127.2	34.34	-9.16	43.5	47.38	17.64	1.19	31.87			P	H	
		206.31	27.09	-16.41	43.5	41.51	15.85	1.54	31.81			P	H	
		449.8	23.13	-22.87	46	29.68	22.9	2.36	31.81			P	H	
		688.5	26.28	-19.72	46	29.32	26.01	2.97	32.02			P	H	
		911.1	30.61	-15.39	46	29.46	29.16	3.44	31.45			P	H	
														H
														H
														H
														H
														H
														H
			42.42	35.13	-4.87	40	47.89	18.52	0.65	31.93	100	25	P	V
			85.08	34.91	-5.09	40	51.58	14.25	0.98	31.9			P	V
			127.47	35.26	-8.24	43.5	48.3	17.64	1.19	31.87			P	V
			459.6	23.72	-22.28	46	30.05	23.11	2.38	31.82			P	V
			573.7	26.82	-19.18	46	31.25	24.78	2.72	31.93			P	V
			960.1	34.2	-19.8	54	31.63	30.14	3.47	31.04			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	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.	
2		(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

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

For Peak Limit @ 2390MHz:

- 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)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- 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)
- 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 :	Alex Jheng , Bill Chang, and Elvis Chen	Temperature :	20~24°C
		Relative Humidity :	45~50%

Note symbol

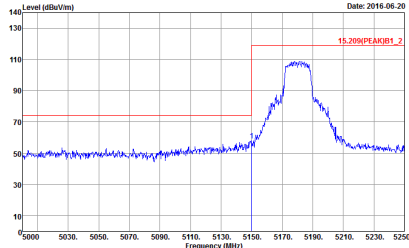
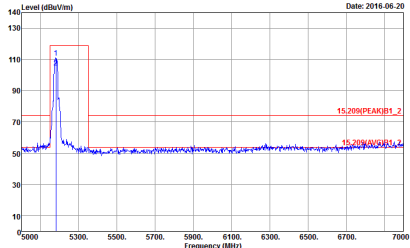
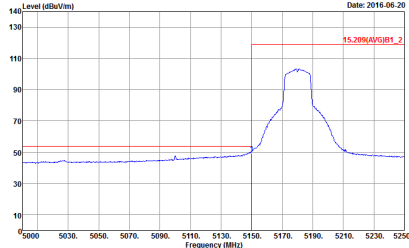
-L	Low channel location
-R	High channel location



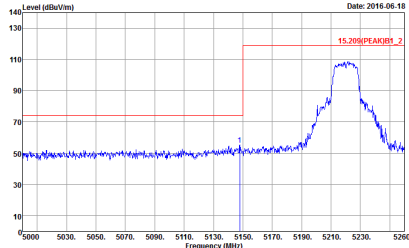
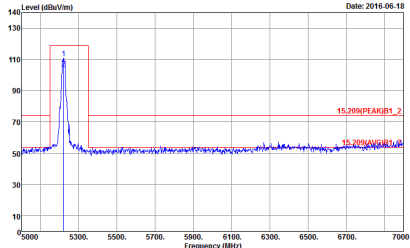
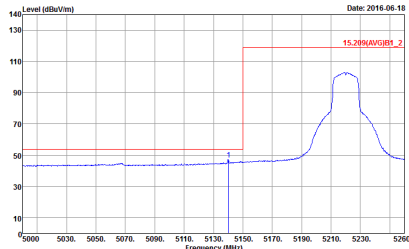
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 1</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 1</p>
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 1</p>	Left blank

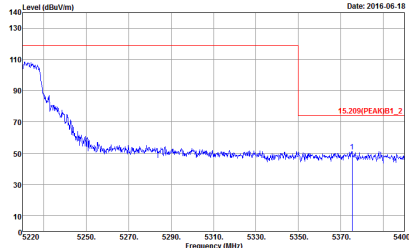
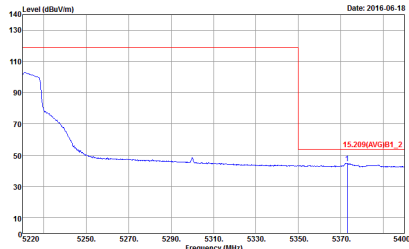


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Vertical
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 1</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 1</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 1</p>	Left blank

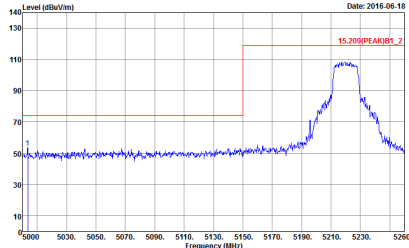
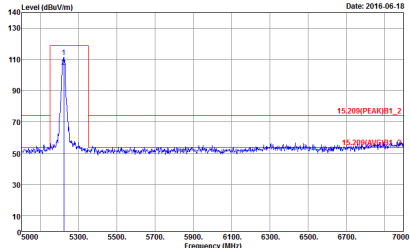
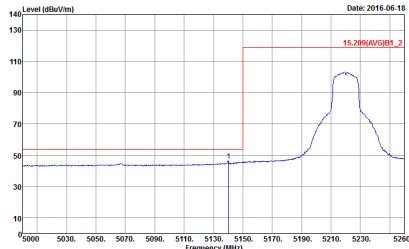


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5220 MHz. The average level is 115.209 dBu/m. The plot shows a blue signal line with a red average marker and a red box around the average. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Date: 2016.06.18</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank
Avg.	 <p>Date: 2016.06.18</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank

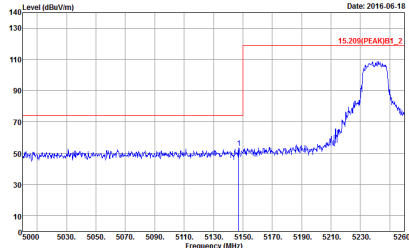
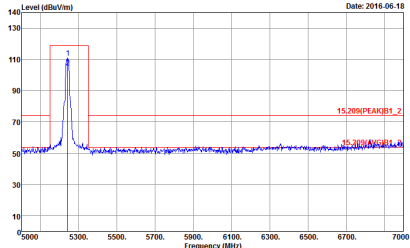
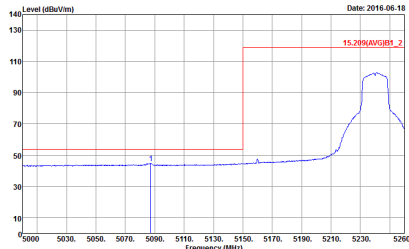


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2016-06-18</p> <p>115.209(PEAK)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	 <p>Date: 2016-06-18</p> <p>115.209(PEAK)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>
Avg.	 <p>Date: 2016-06-18</p> <p>115.209(AVG)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 2</p>	Left blank

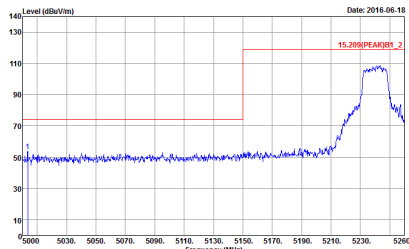
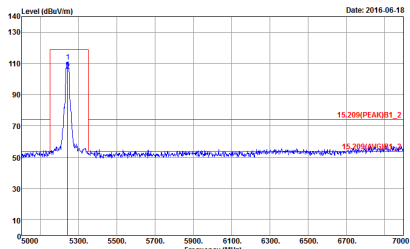
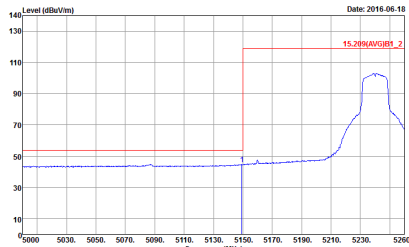


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red horizontal line indicating the peak level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red horizontal line indicating the peak level. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5240 MHz. The average level is 115.209 dBu/m. The plot shows a blue signal line with a red average marker and a red horizontal line indicating the average level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 dBu/m. The plot shows a blue trace with a red box highlighting the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 dBu/m. The plot shows a blue trace with a red box highlighting the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level of 15.209 dBu/m at 5240 MHz. The plot shows a blue trace with a red box highlighting the average level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank



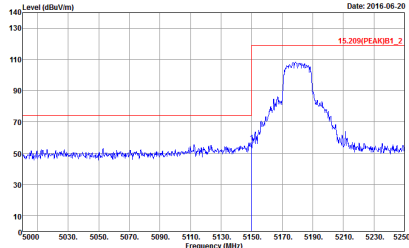
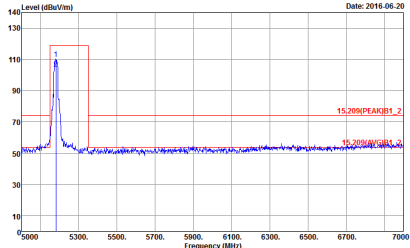
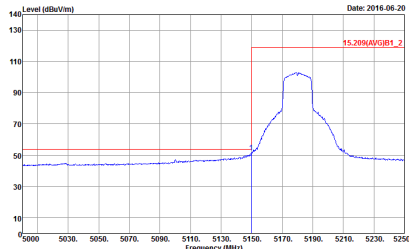
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(Peak)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 3</p>	Left blank



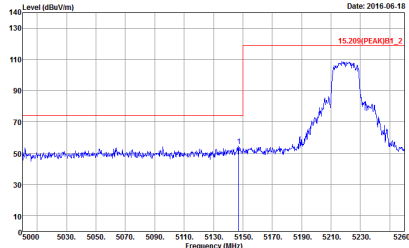
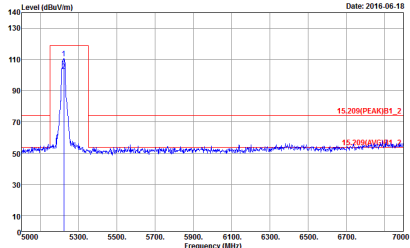
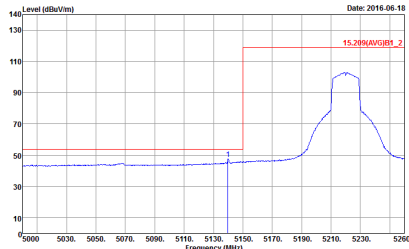
**Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 4</p>	Left blank

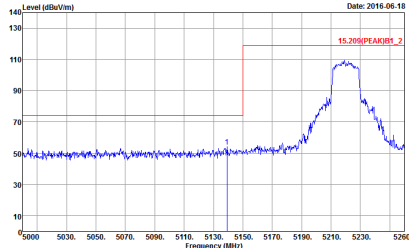
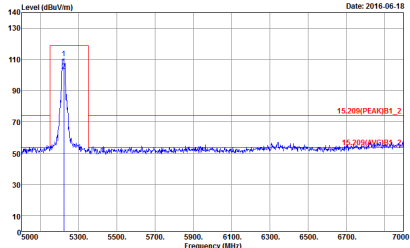
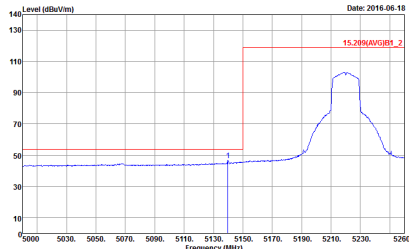


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBuV/m. The plot shows a blue signal line with a red peak marker and a red horizontal line indicating the peak level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBuV/m. The plot shows a blue signal line with a red peak marker and a red horizontal line indicating the peak level. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing an average signal at 5220 MHz. The average level is 115.209 dBuV/m. The plot shows a blue signal line with a red average marker and a red horizontal line indicating the average level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank

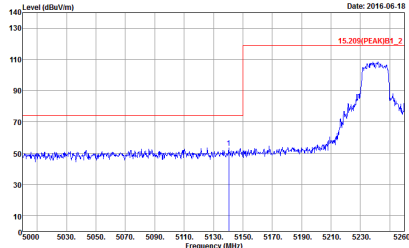
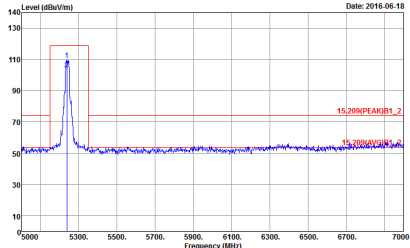
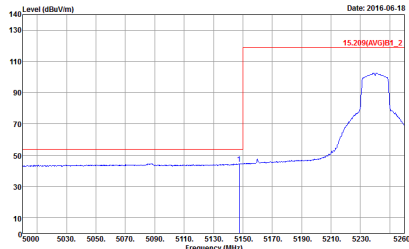


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal peak at approximately 5220 MHz with a level of 115.209 dBu/m. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m. A red box highlights the peak, and a red line indicates the level. The date is 2016-06-18.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal peak at approximately 5220 MHz with a level of 115.209 dBu/m. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m. A red box highlights the peak, and a red line indicates the level. The date is 2016-06-18.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot for Avg Vertical. The plot shows a signal peak at approximately 5220 MHz with a level of 115.209 dBu/m. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m. A red box highlights the peak, and a red line indicates the level. The date is 2016-06-18.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(Peak)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(Avg)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 5</p>	Left blank

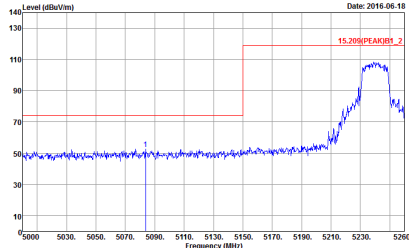
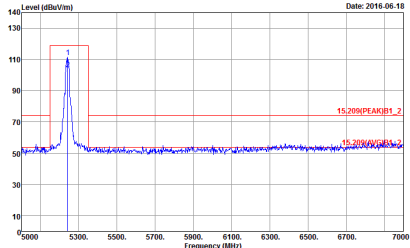
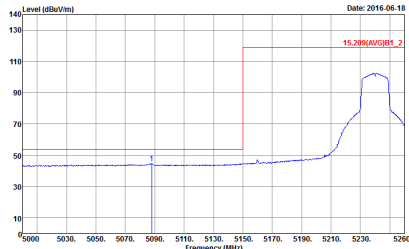


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5240 MHz. The average level is 115.209 dBu/m. The plot shows a blue signal line with a red average marker and a red box around the average. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank



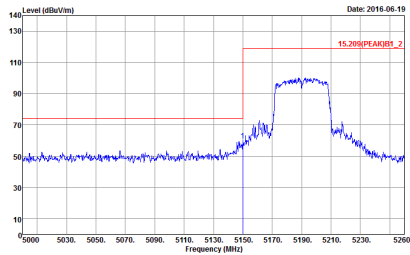
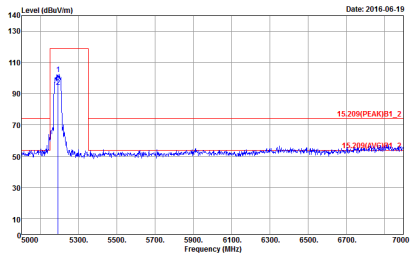
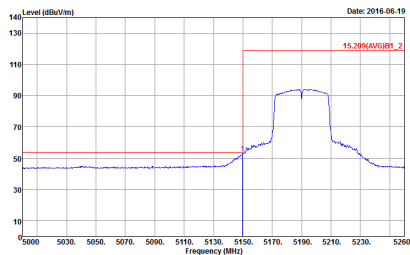
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a label '15.209(PEAK)B1_2'. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a label '15.209(PEAK)B1_2'. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5240 MHz. The average level is approximately 110 dBu/m. The plot includes a red box highlighting the average level and a label '15.209(AVG)B1_2'. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 6</p>	Left blank



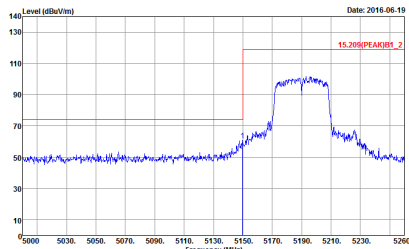
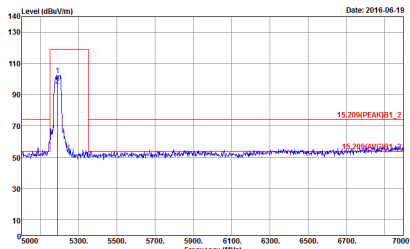
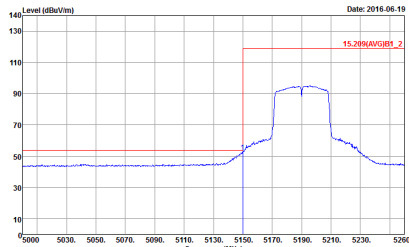
**Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>
<p>Avg.</p>	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	<p align="center">Left blank</p>

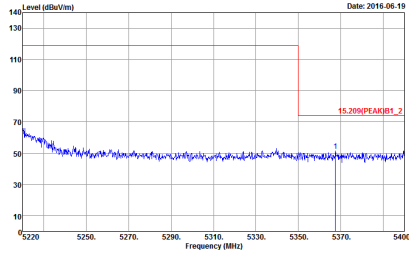
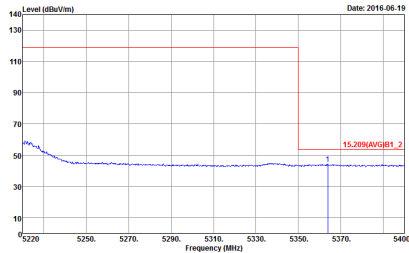


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	Left blank

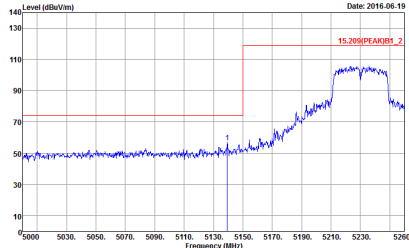
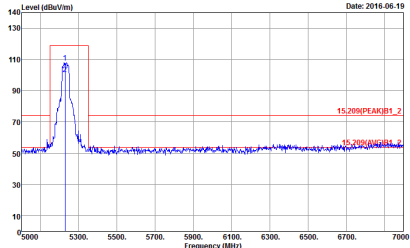
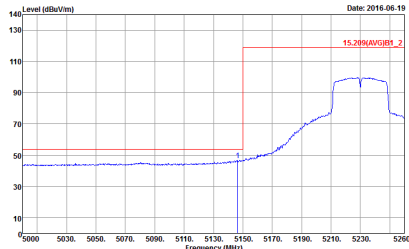


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.289(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	Left blank

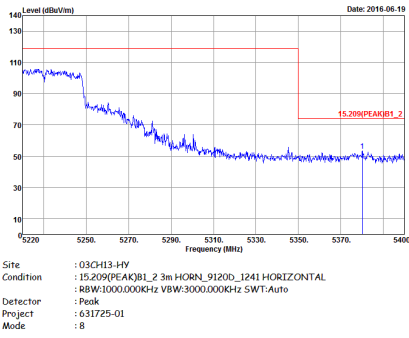
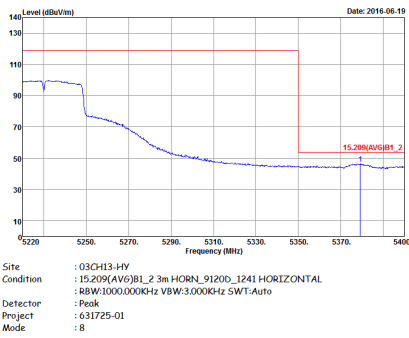


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-1HY Condition : 15.209(PK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	Left blank
Avg.	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-1HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 7 Power Setting : 15</p>	Left blank

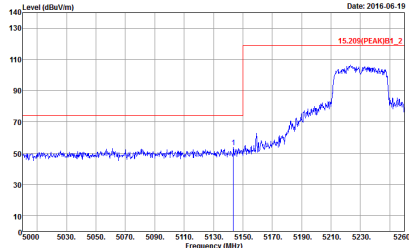
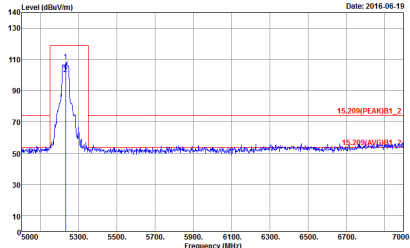
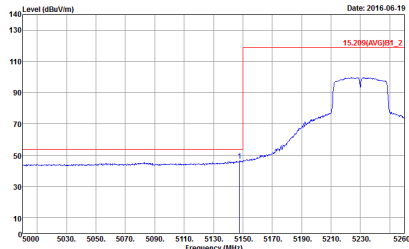


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5230 MHz. The peak level is 15.209 dBuV/m. The plot shows a rising signal starting around 5150 MHz and peaking at 5230 MHz.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 5230 MHz. The peak level is 15.209 dBuV/m. The plot shows a very narrow peak centered at 5230 MHz.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing an averaged signal. The peak level is 15.209 dBuV/m. The plot shows a smoother rising signal starting around 5150 MHz and peaking at 5230 MHz.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>	Left blank



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



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5230 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a red line indicating the level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5230 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a red line indicating the level. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average signal at 5230 MHz. The average level is approximately 110 dBu/m. The plot includes a red box highlighting the average signal and a red line indicating the level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 8</p>	Left blank



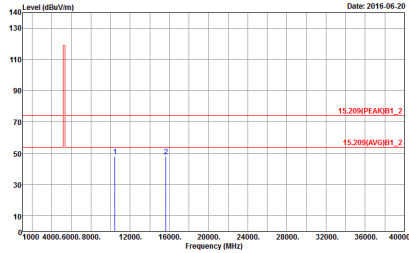
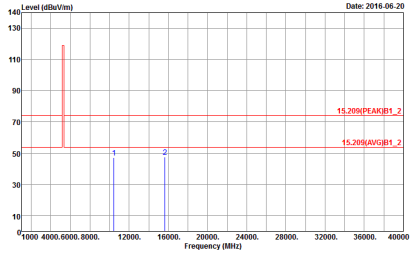
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 8</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 8</p>	Left blank



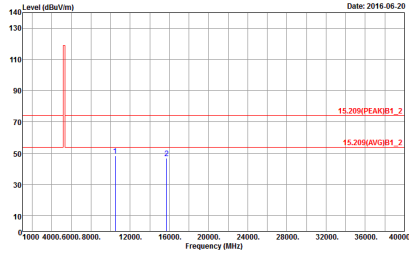
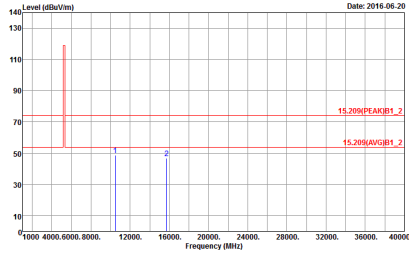
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HV Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 1</p>	<p>Site : 03CH13-HV Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 1</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 2</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 2</p>



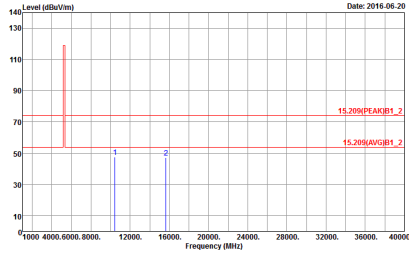
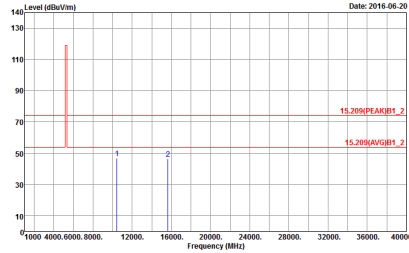
WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 3</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 3</p>



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

Table with 3 columns: WIFI, ANT, and measurement results for Horizontal and Vertical orientations. Includes two graphs showing Level (dBuV/m) vs Frequency (MHz) and associated metadata.



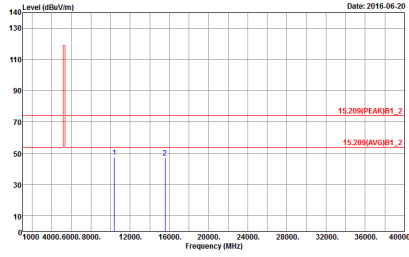
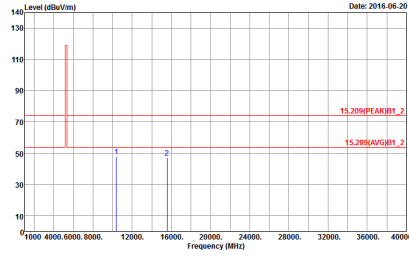
WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 5</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 5</p>



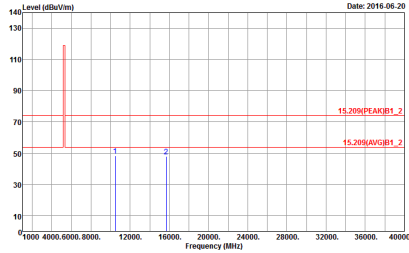
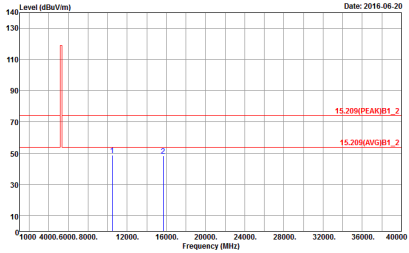
WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 6</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 6</p>



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
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH13-HY Condition : 15.2099(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 7</p>	 <p>Site : 03CH13-HY Condition : 15.2099(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 7</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 8</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 8</p>



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

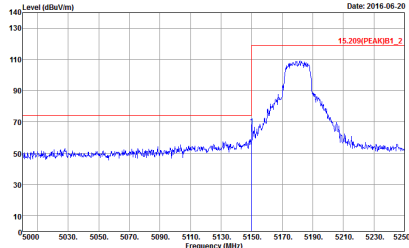
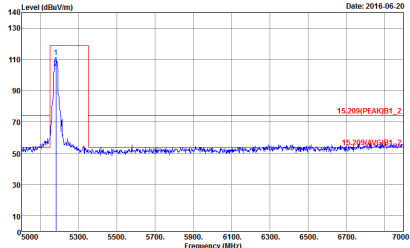
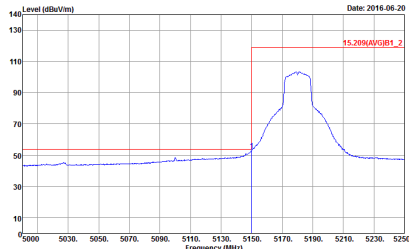
WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH13-HV Condition : 15.209 3m BILO6_40103 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 17</p>	<p>Site : 03CH13-HV Condition : 15.209 3m BILO6_40103 VERTICAL Detector : Peak Project : 631725-01 Mode : 17</p>



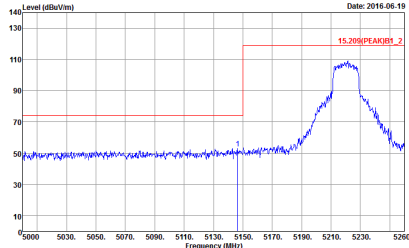
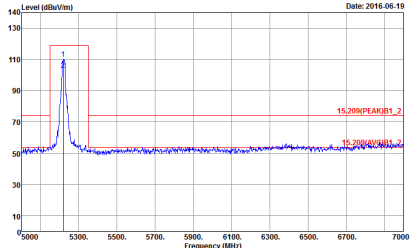
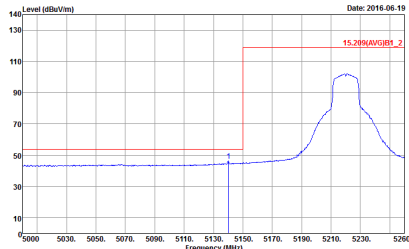
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 9</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 9</p>
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 9</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Vertical
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 9</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 9</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 9</p>	Left blank

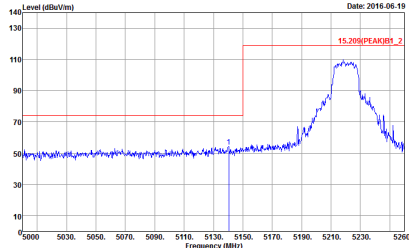
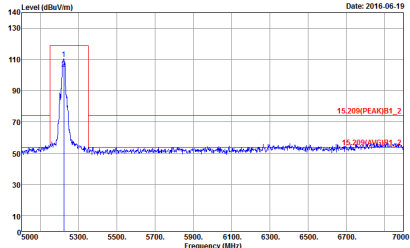
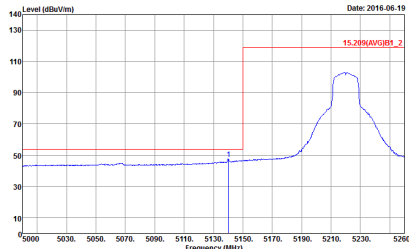


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5220 MHz. The average level is 115.209 dBu/m. The plot shows a blue signal line with a red average marker and a red box around the average. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank

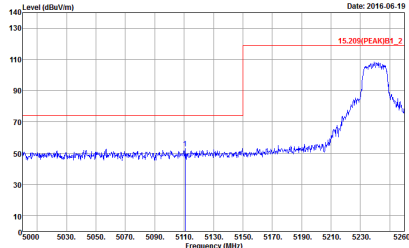
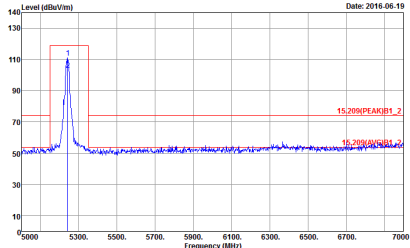
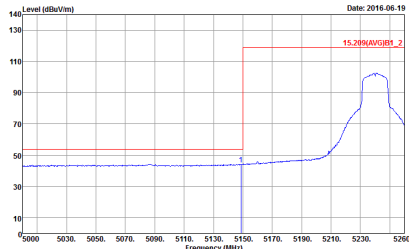


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : IO</p>	Left blank

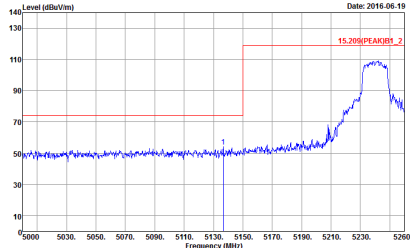
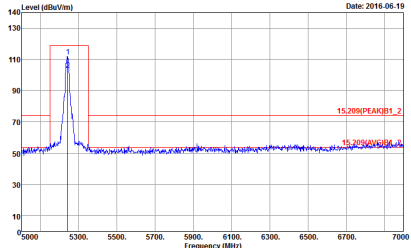
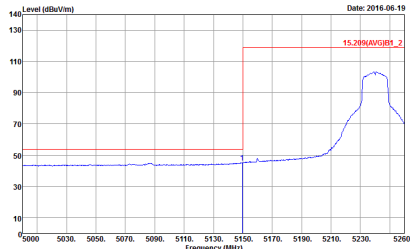


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Date: 2016-06-19</p> <p>Level (dBu/m) vs Frequency (MHz)</p> <p>15.209(PEAK)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>	 <p>Date: 2016-06-19</p> <p>Level (dBu/m) vs Frequency (MHz)</p> <p>15.209(PEAK)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>
Avg.	 <p>Date: 2016-06-19</p> <p>Level (dBu/m) vs Frequency (MHz)</p> <p>15.209(AVG)B1_2</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>	Left blank

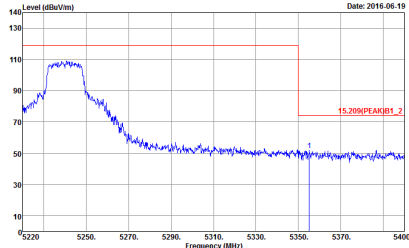
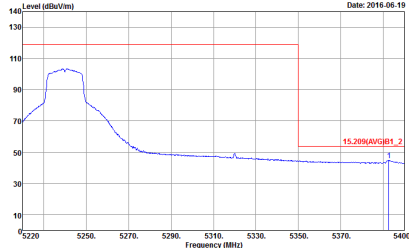


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 11</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 11</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : II</p>	Left blank



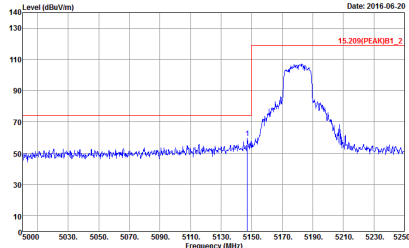
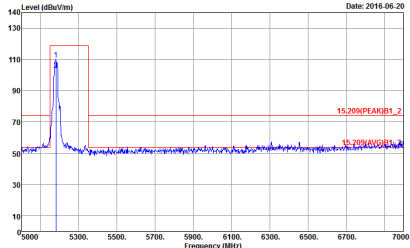
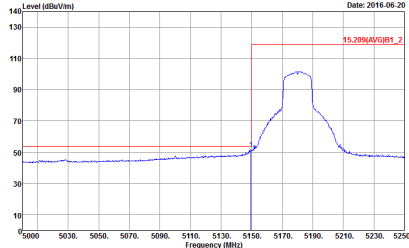
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 11</p>	Left blank
Avg.	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 11</p>	Left blank



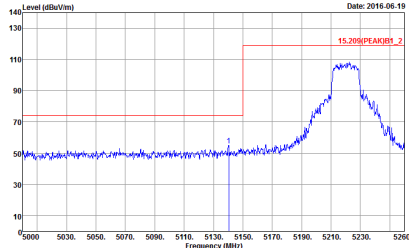
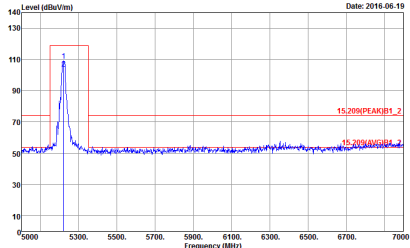
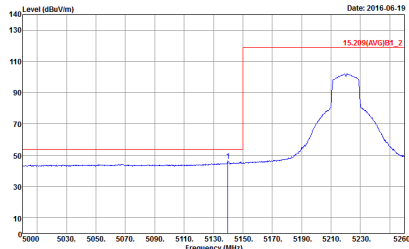
**Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 12 Power Setting : 20</p>	Left blank

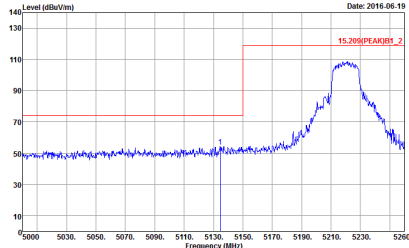
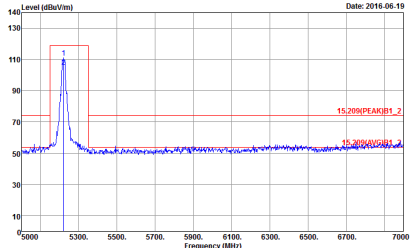
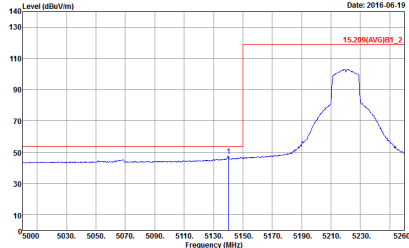


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The peak level is 115.209 dBu/m. The plot shows a blue signal line with a red peak marker and a red box around the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level at 5220 MHz. The average level is 115.209 dBu/m. The plot shows a blue signal line with a red average marker and a red box around the average. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank

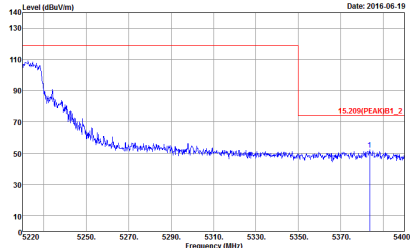
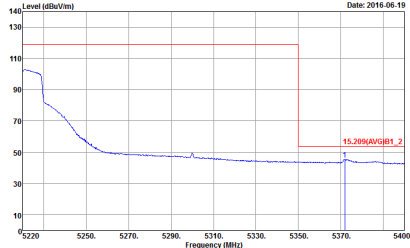


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank

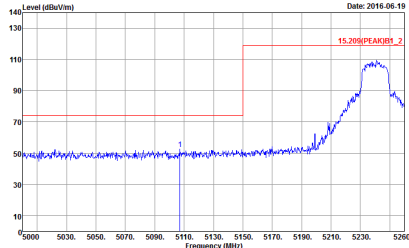
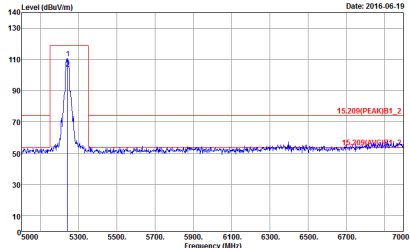
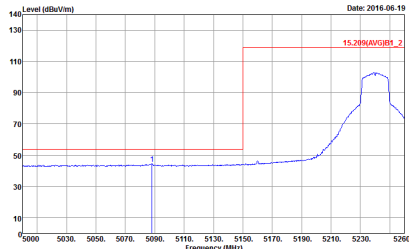


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>
Avg.	 <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank

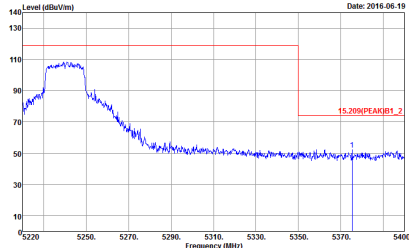
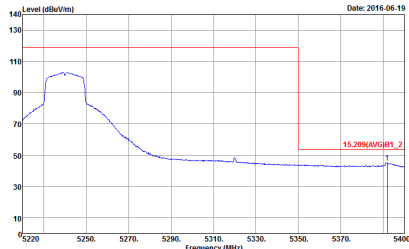


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank
Avg.	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 13</p>	Left blank

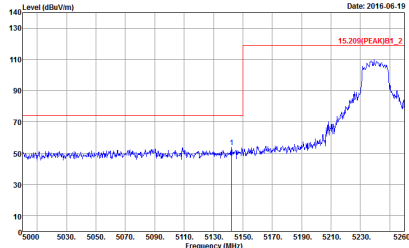
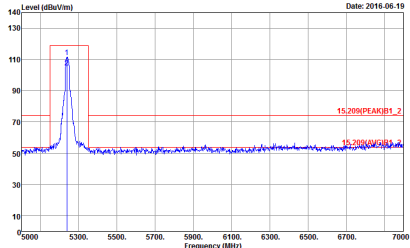
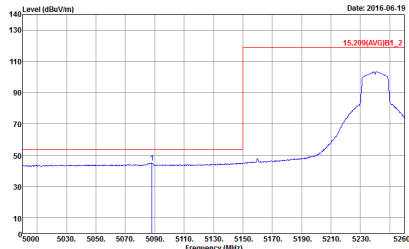


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 dBu/m. The plot shows a noise floor around 50 dBu/m and a rising signal starting around 5150 MHz.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 dBu/m. The plot shows a sharp peak at 5240 MHz with a level of 15.209 dBu/m and a noise floor around 50 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average level of 15.209 dBu/m at 5240 MHz. The plot shows a rising signal starting around 5150 MHz and leveling off at 5240 MHz.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank

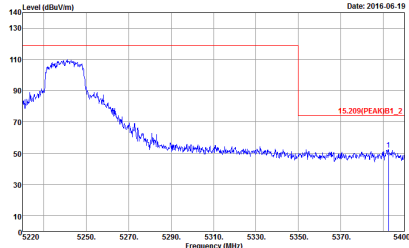
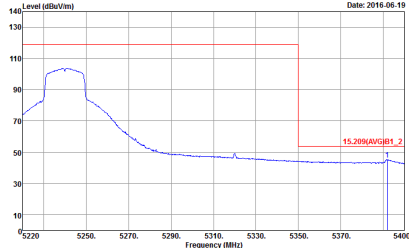


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank
Avg.	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 (PEAK)B1_2. The plot shows a blue signal line with a red box highlighting the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The peak level is 15.209 (PEAK)B1_2. The plot shows a blue signal line with a red box highlighting the peak. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average signal. The peak level is 15.209 (AVG)B1_2. The plot shows a blue signal line with a red box highlighting the peak. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank



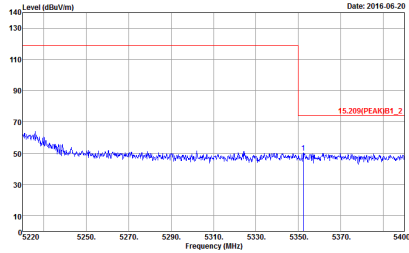
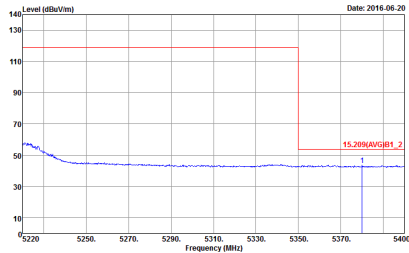
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank
Avg.	 <p>Date: 2016.06.19</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 14</p>	Left blank



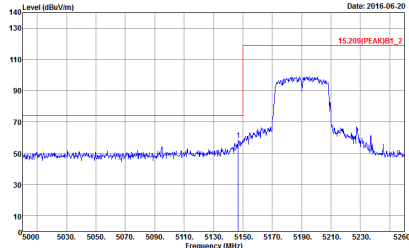
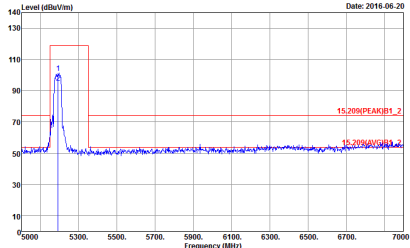
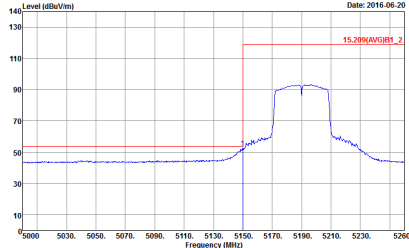
**Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank

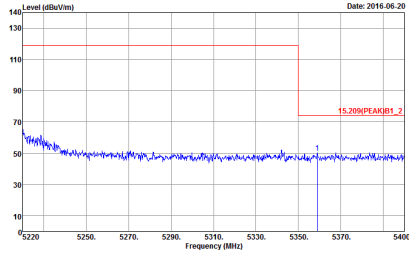
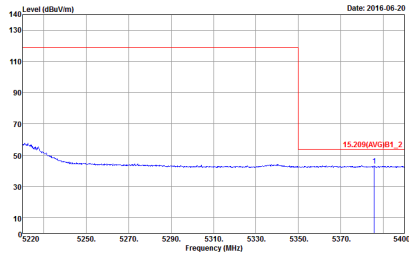


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Date: 2016.06.20</p> <p>Site : 03CH13-IHY Condition : 15.209(PK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank
Avg.	 <p>Date: 2016.06.20</p> <p>Site : 03CH13-IHY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank

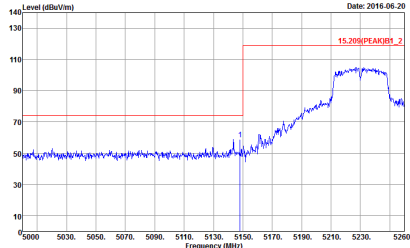
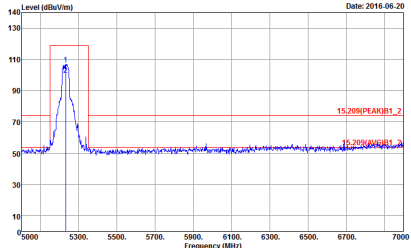
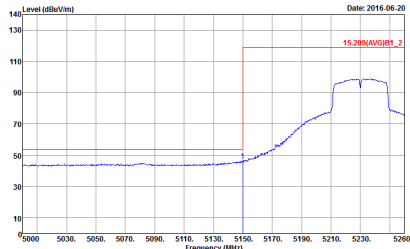


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal peak at 5190 MHz with a level of 15.209 dBuV/m. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal peak at 5190 MHz with a level of 15.209 dBuV/m. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Avg Vertical. The plot shows an averaged signal peak at 5190 MHz with a level of 15.209 dBuV/m. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBuV/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak	 <p>Date: 2016.06.20</p> <p>Level (dBu/m)</p> <p>Frequency (MHz)</p> <p>15.209(Peak)B1_2</p> <p>Site : 03CH13-IHY Condition : 15.209(Peak)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank
Avg.	 <p>Date: 2016.06.20</p> <p>Level (dBu/m)</p> <p>Frequency (MHz)</p> <p>15.209(AVG)B1_2</p> <p>Site : 03CH13-IHY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 631725-01 Mode : 15 Power Setting : 15</p>	Left blank

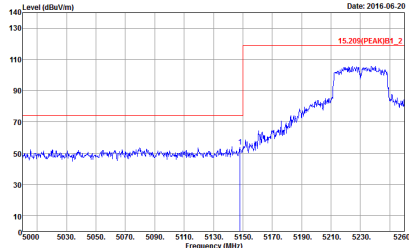
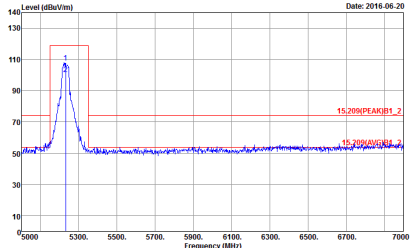
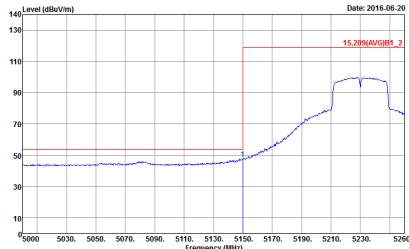


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5230 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a red line indicating the level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at 5230 MHz. The peak level is approximately 110 dBu/m. The plot includes a red box highlighting the peak and a red line indicating the level. The x-axis ranges from 5000 to 7000 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing the average signal. The plot includes a red box highlighting the peak and a red line indicating the level. The x-axis ranges from 5000 to 5260 MHz, and the y-axis ranges from 10 to 140 dBu/m.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank

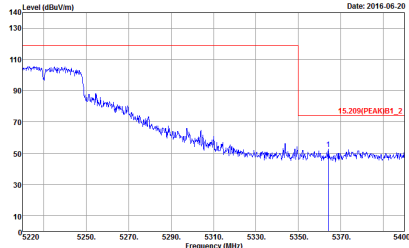
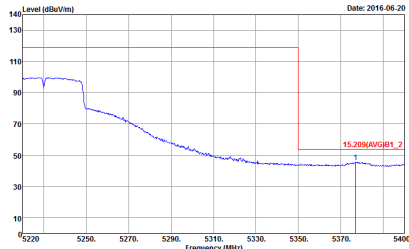


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical Peak. The plot shows a signal level rising from approximately 50 dBuV/m at 5150 MHz to about 100 dBuV/m at 5230 MHz. A red box highlights a peak at 15.209 MHz with a level of 115.209 dBuV/m. The date is 2016-06-20.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental Peak. The plot shows a sharp peak at approximately 5230 MHz with a level of about 115 dBuV/m. A red box highlights a peak at 15.209 MHz with a level of 115.209 dBuV/m. The date is 2016-06-20.</p> <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical Avg. The plot shows a signal level rising from approximately 50 dBuV/m at 5150 MHz to about 100 dBuV/m at 5230 MHz. A red box highlights a peak at 15.209 MHz with a level of 115.209 dBuV/m. The date is 2016-06-20.</p> <p>Site : 03CH13-HY Condition : 15.209(AVG)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank



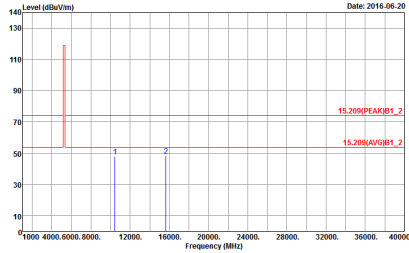
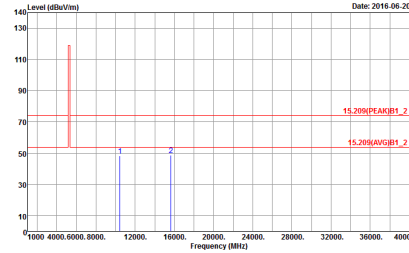
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak	 <p>Date: 2016.06.20</p> <p>Site : 03CH13-HY Condition : 15.209(Peak)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank
Avg.	 <p>Date: 2016.06.20</p> <p>Site : 03CH13-HY Condition : 15.209(Avg)B1_2 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 631725-01 Mode : 16</p>	Left blank



Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
<p>Peak Avg.</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)@1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 9</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)@1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 9</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 10</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)81_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 10</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 11</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 11</p>



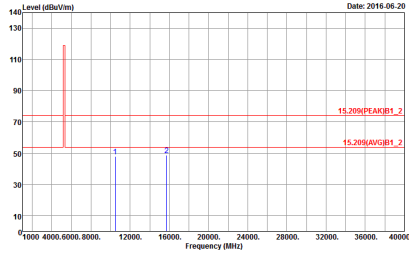
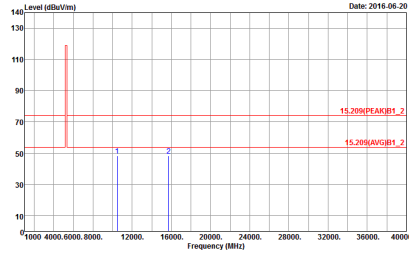
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 3 columns: WIFI, ANT, and measurement results for Horizontal and Vertical orientations. Includes two graphs showing Level (dBuV/m) vs Frequency (MHz) and associated metadata like Site, Condition, and Project.



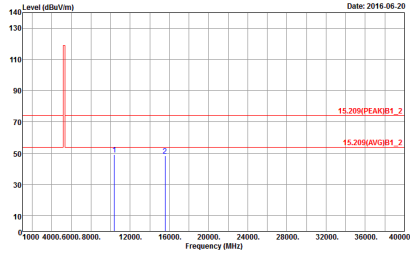
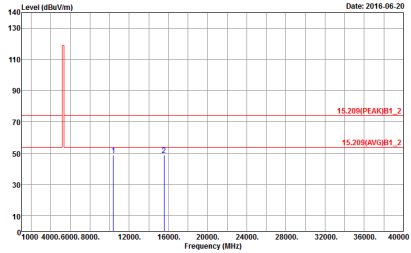
WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 13</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 13</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 14</p>	 <p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 14</p>



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
2	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH13-HY Condition : 15.2099(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 15</p>	 <p>Site : 03CH13-HY Condition : 15.2099(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 15</p>



WIFI	Band 1 5150-5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 16</p>	<p>Site : 03CH13-HY Condition : 15.209(PEAK)B1_2 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-01 Mode : 16</p>



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

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH13-HV Condition : 15.209 3m BILO6_40103 HORIZONTAL Detector : Peak Project : 631725-01 Mode : 18</p>	<p>Site : 03CH13-HV Condition : 15.209 3m BILO6_40103 VERTICAL Detector : Peak Project : 631725-01 Mode : 18</p>



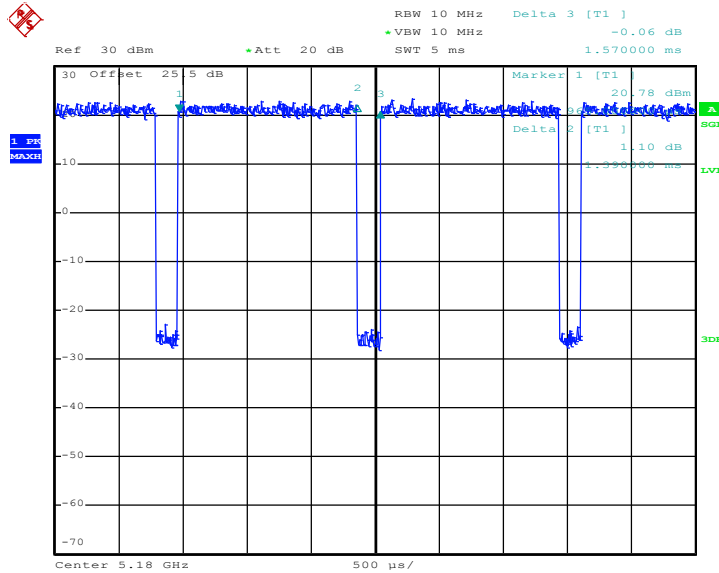
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	88.54	1390	0.72	1kHz
1	5GHz 802.11n HT20	87.84	1300	0.77	1kHz
1	5GHz 802.11n HT40	77.11	640	1.56	3kHz
2	802.11a	88.54	1390	0.72	1kHz
2	5GHz 802.11n HT20	87.84	1300	0.78	1kHz
2	5GHz 802.11n HT40	78.31	650	1.55	3kHz



<Ant. 1>

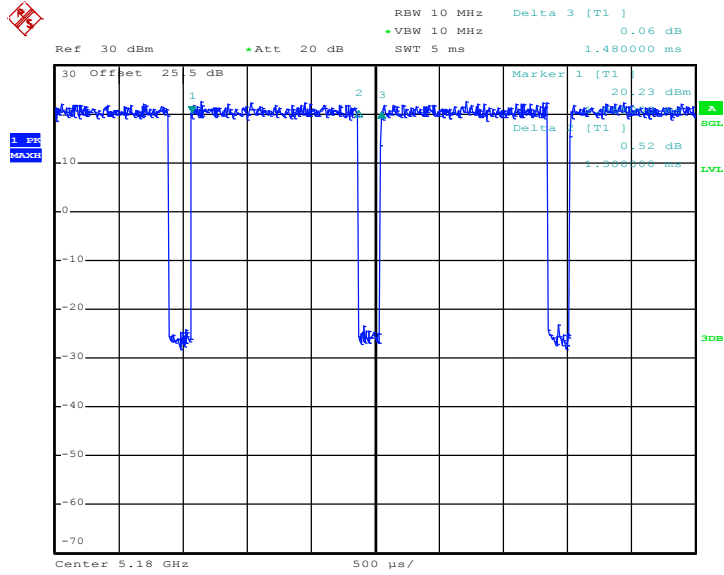
802.11a



Date: 14.JUN.2016 01:51:42

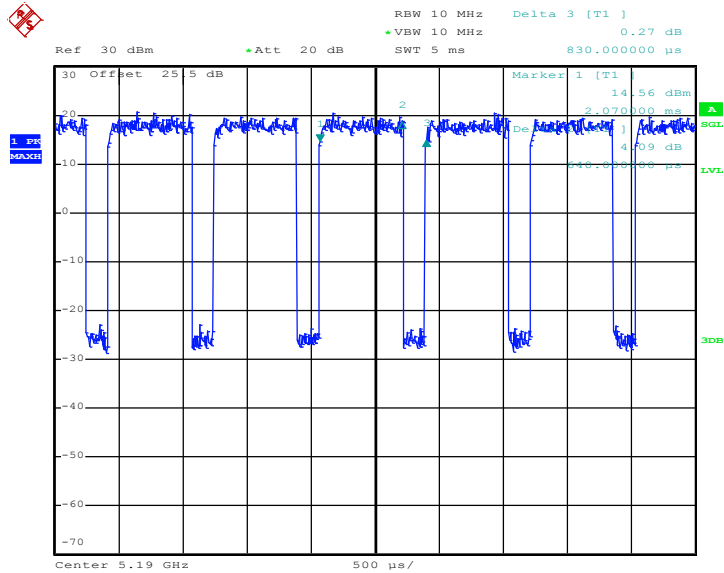


802.11n HT20



Date: 14.JUN.2016 02:07:52

802.11n HT40

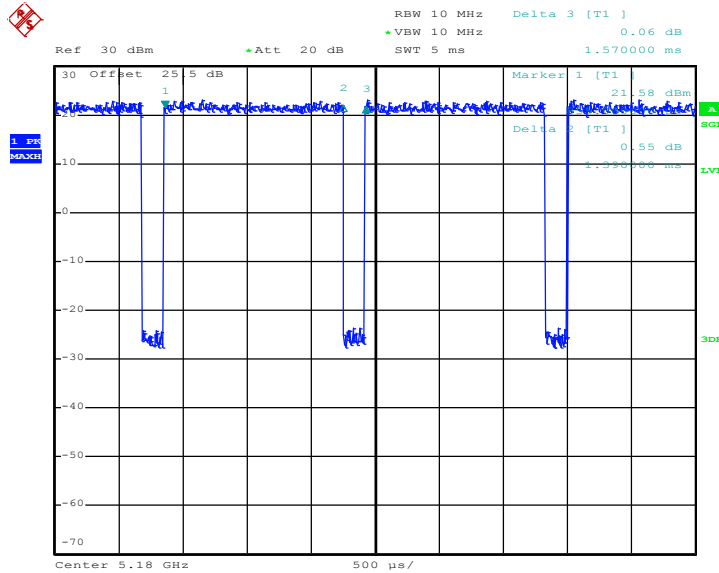


Date: 14.JUN.2016 02:14:32



<Ant. 2>

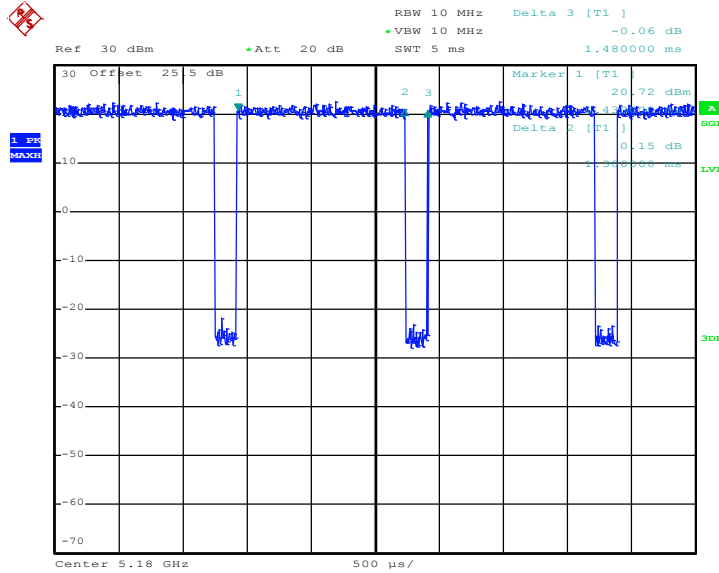
802.11a



Date: 14.JUN.2016 02:00:43

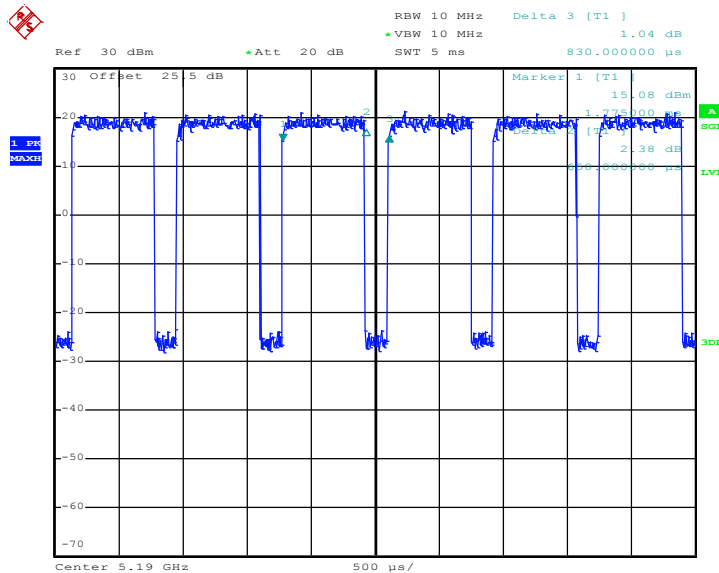


802.11n HT20



Date: 14.JUN.2016 02:11:14

802.11n HT40



Date: 14.JUN.2016 02:18:07