



FCC RADIO TEST REPORT

FCC ID : 2AP67-5926
Equipment : Digital Media Receiver
Model Name : K9Y29E
Applicant : Onaka LLC
1915 NE Stucki Ave., Ste 400
Beaverton, OR 97006
Standard : FCC Part 15 Subpart E §15.407

The test was completed on Oct. 26, 2018. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Joseph Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.403(i)	26dB Bandwidth	Pass
3.1	2.1049	99% Occupied Bandwidth	Reporting only
3.2	15.407(a)	Maximum Conducted Output Power	Pass
3.3	15.407(a)	Power Spectral Density	Pass
3.4	15.407(b)	Unwanted Emissions	Pass
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Pass
3.7	15.203 15.407(a)	Antenna Requirement	Pass

Reviewed by: Wii Chang

Report Producer: Polly Tsai



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	K9Y29E
FCC ID	2AP67-5926
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz
Maximum Output Power to Antenna <CDD Modes>	<p><Ant. 1> 802.11a : 19.58 dBm / 0.0908 W 802.11n HT20 : 18.67 dBm / 0.0736 W 802.11n HT40 : 18.51 dBm / 0.0710 W 802.11ac VHT20: 18.65 dBm / 0.0733 W 802.11ac VHT40: 18.43 dBm / 0.0697 W 802.11ac VHT80: 9.48 dBm / 0.0089 W</p> <p><Ant. 2> 802.11a : 20.18 dBm / 0.1042 W 802.11n HT20 : 19.14 dBm / 0.0820 W 802.11n HT40 : 18.82 dBm / 0.0762 W 802.11ac VHT20: 19.10 dBm / 0.0813 W 802.11ac VHT40: 18.78 dBm / 0.0755 W 802.11ac VHT80: 14.37 dBm / 0.0274 W</p> <p>MIMO<Ant. 1+2> 802.11a : 21.23 dBm / 0.1327 W 802.11n HT20 : 21.30 dBm / 0.1349 W 802.11n HT40 : 21.91 dBm / 0.1552 W 802.11ac VHT20: 21.26 dBm / 0.1337 W 802.11ac VHT40: 21.85 dBm / 0.1531 W 802.11ac VHT80: 12.79 dBm / 0.0190 W</p>
Maximum Output Power to Antenna <TXBF Modes>	<p>MIMO<Ant. 1+2> 802.11ac VHT20: 21.27 dBm / 0.1340 W 802.11ac VHT40: 21.58 dBm / 0.1439 W 802.11ac VHT80: 10.57 dBm / 0.0114 W</p>

Standards-related Product Specification													
99% Occupied Bandwidth <CDD Modes>	<p><Ant. 1> 802.11a : 16.95 MHz 802.11n HT20 : 17.85 MHz 802.11n HT40 : 36.70 MHz 802.11ac VHT80: 76.92 MHz</p> <p><Ant. 2> 802.11a : 17.00 MHz 802.11n HT20 : 17.85 MHz 802.11n HT40 : 36.50 MHz 802.11ac VHT80: 76.92 MHz</p> <p>MIMO <Ant. 1> 802.11a : 16.75 MHz 802.11n HT20 : 17.80 MHz 802.11n HT40 : 36.80 MHz 802.11ac VHT80: 76.80 MHz</p> <p>MIMO <Ant. 2> 802.11a : 16.60 MHz 802.11n HT20 : 17.75 MHz 802.11n HT40 : 36.70 MHz 802.11ac VHT80: 76.80 MHz</p>												
99% Occupied Bandwidth <TXBF Modes>	<p>MIMO <Ant. 1> 802.11ac VHT20 : 17.80 MHz 802.11ac VHT40 : 36.60 MHz 802.11ac VHT80: 77.04 MHz</p> <p>MIMO <Ant. 2> 802.11ac VHT20 : 17.70 MHz 802.11ac VHT40 : 36.60 MHz 802.11ac VHT80: 76.92 MHz</p>												
Antenna Type / Gain	<p>Ant. 1 : PCB Printed Inverted-F Antenna type with gain 3.18 dBi Ant. 2 : FPC Inverted-F Antenna type with gain 1.55 dBi</p>												
Type of Modulation	<p>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</p>												
Antenna Function Description	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a/n/ac</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 a/n/ac MIMO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11ac TXBF</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a/n/ac	V	V	802.11 a/n/ac MIMO	V	V	802.11ac TXBF	V	V
	Ant. 1	Ant. 2											
802.11 a/n/ac	V	V											
802.11 a/n/ac MIMO	V	V											
802.11ac TXBF	V	V											

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

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



1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH05-HY	CO05-HY	DFS02-HY

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

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

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

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

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



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in two configurations, with accessories and without accessories. The worst case (without accessories) was recorded in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

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
	42#	5210		

Note:

- 1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "#" were 802.11ac VHT80.



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

TXBF Mode

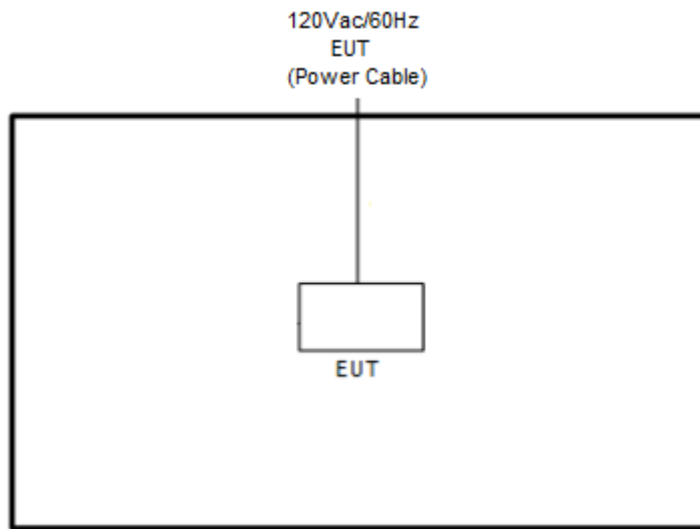
Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link with Bluetooth Speaker + DVD player connect Coaxial IN port + 600 ohm load connect Line IN port + 75 ohm load connect Coaxial OUT port + 600 ohm load connect Subwoofer OUT port + 600 ohm load connect Line OUT port + 8 ohm load connect Left channel OUT port + 8 ohm load connect Right channel OUT port + MP3 from Coaxial IN port + Power cable

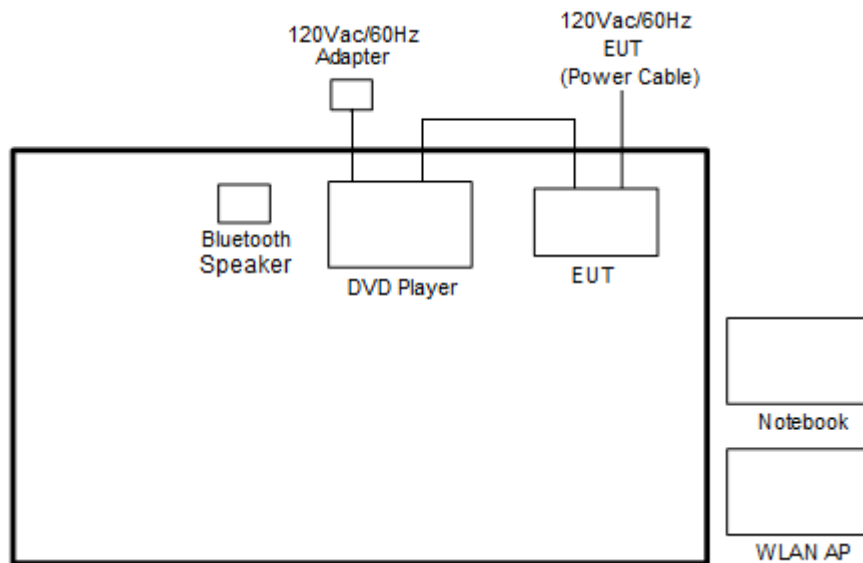
Ch. #		Band I : 5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
M	Middle	44	44	-	42
H	High	48	48	46	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Speaker	Jambox	Mini Jambox	FCC DoC	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	DVD Player	Sony	BDP-S370	FCC DoC	Unshielded, 1.2 m	N/A
4.	Notebook	DELL	Latitude E5570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “CMD” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

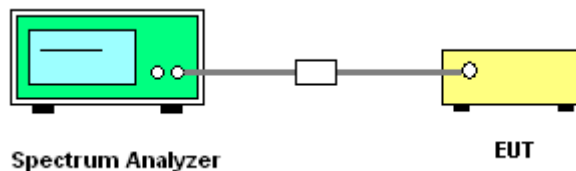
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup

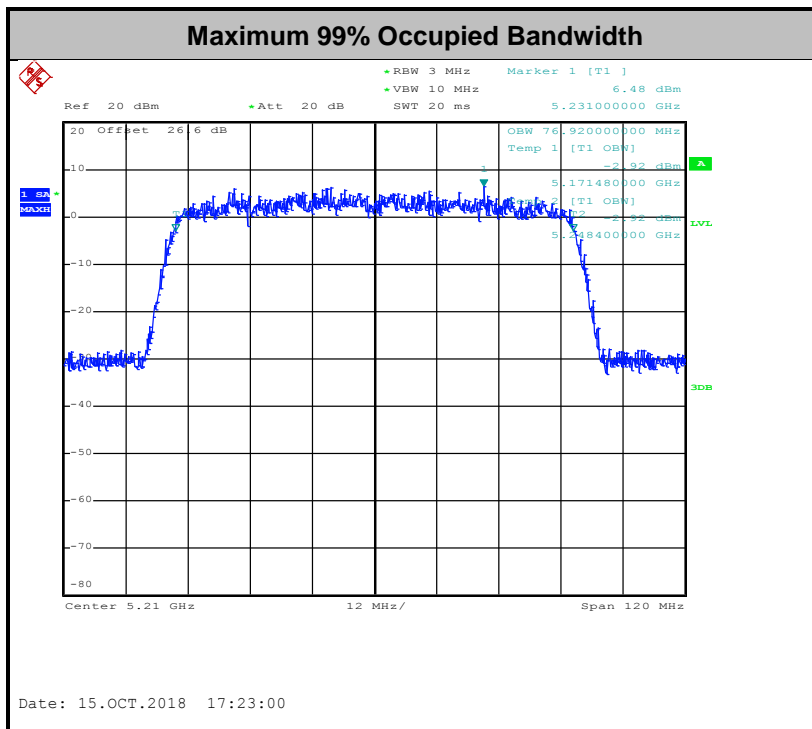
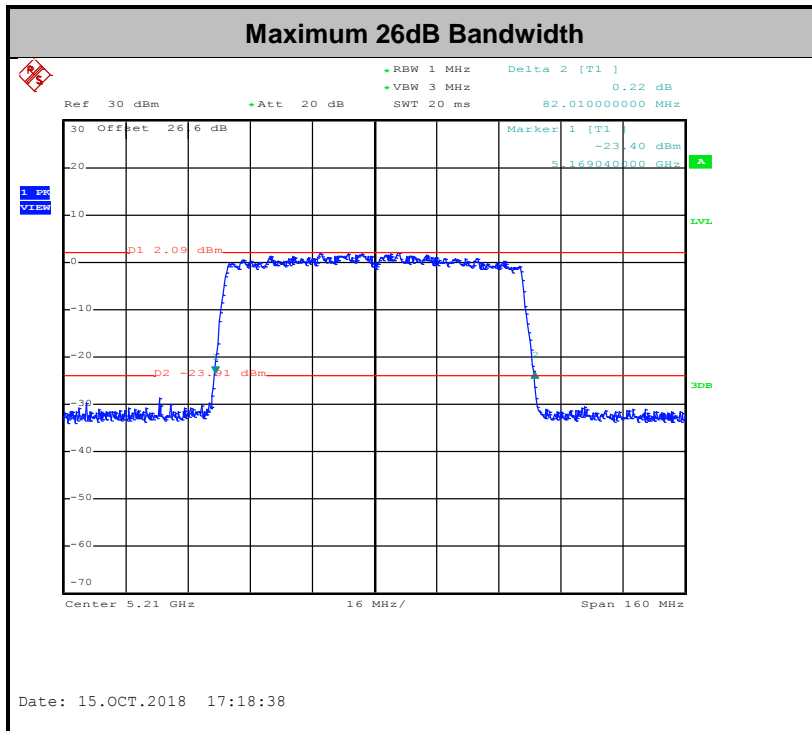


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



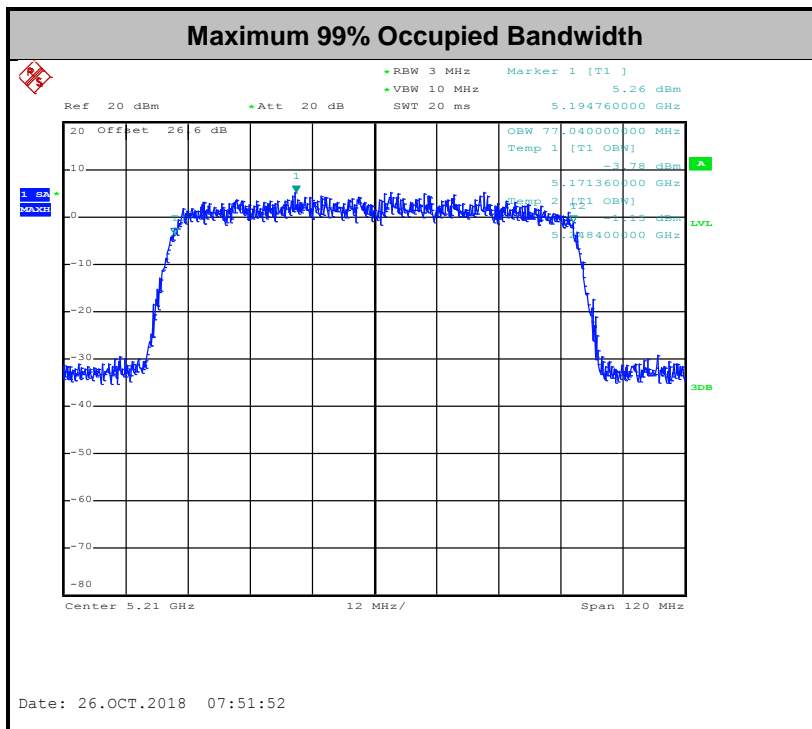
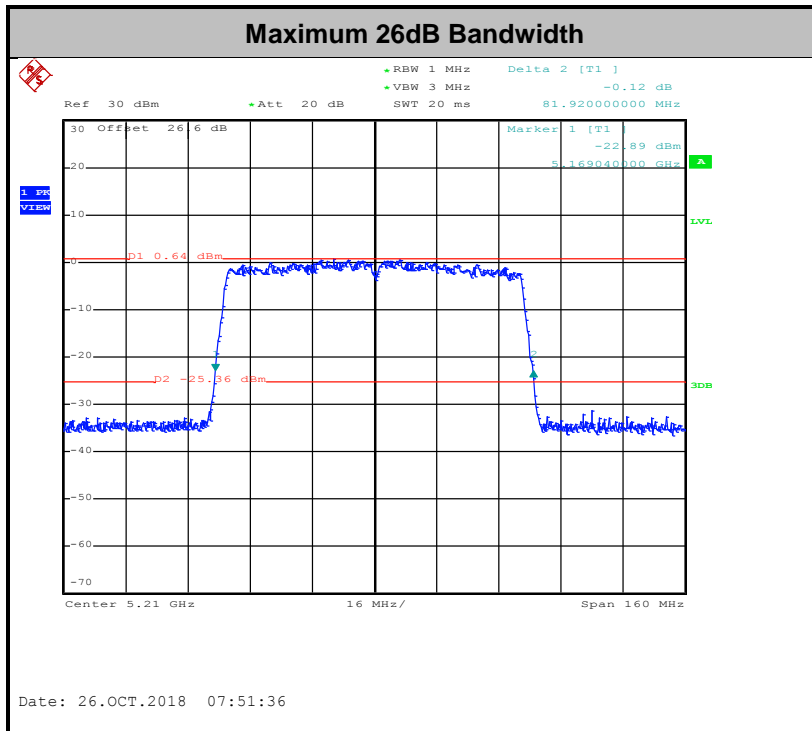
<CDD Mode>



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



<TXBF Modes>



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 the 5.15–5.25 GHz bands:

- For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<CDD Modes>

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

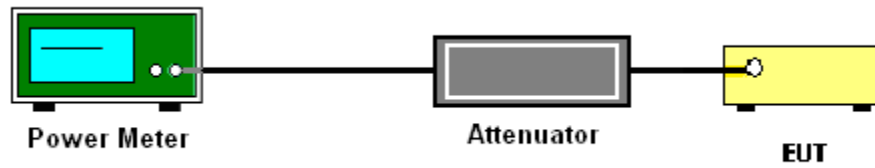
<TXBF Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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 the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz 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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

<CDD Modes>

Method SA-2

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

- 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.

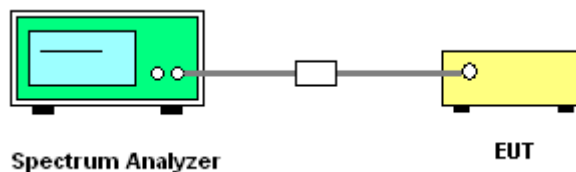
<TXBF Modes>**# Method SA-3 #**

(power averaging (rms) detection with max hold):

- 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 \leq (number of points in sweep) \times 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.
 - Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

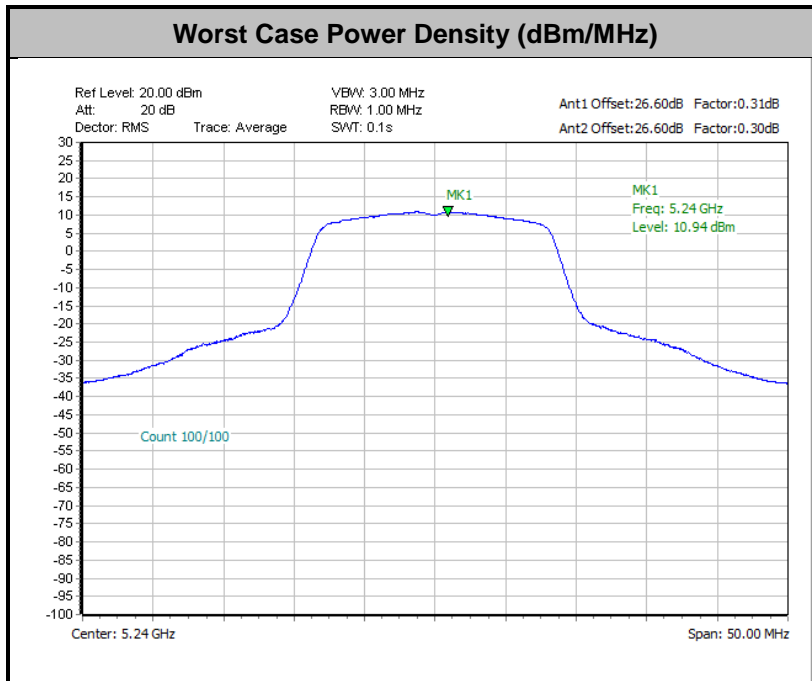
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

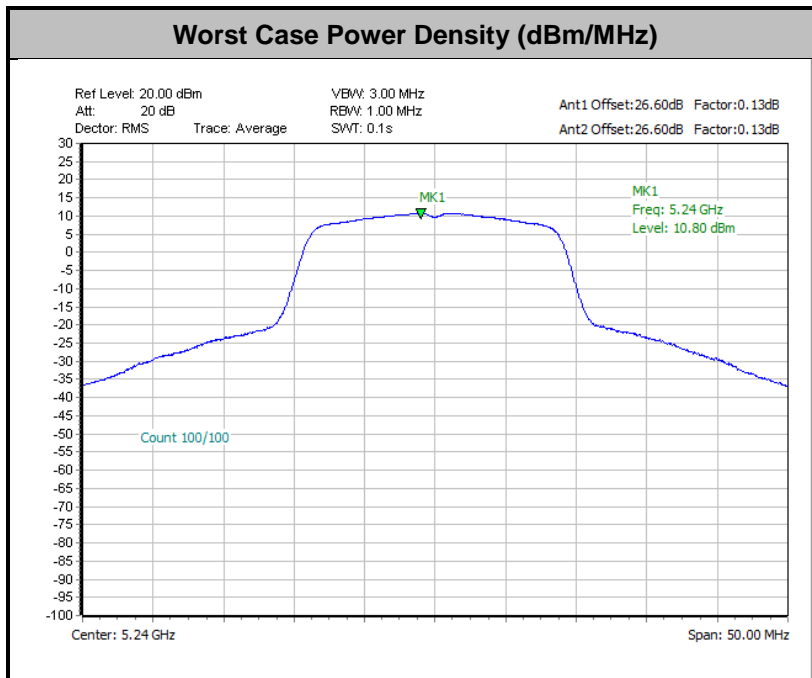


<CDD Modes>



Note: Average Power Density (dB) = Measured value+ Duty Factor

<TXBF Modes>





3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

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



(3) KDB789033 D02 v02r01 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

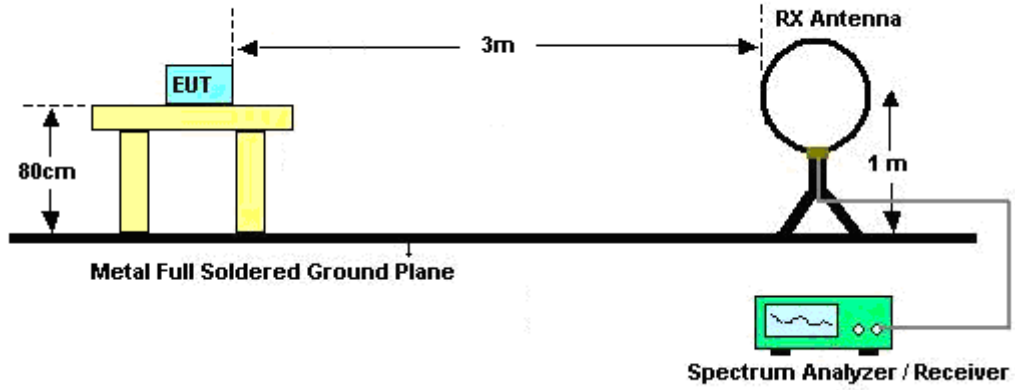


(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

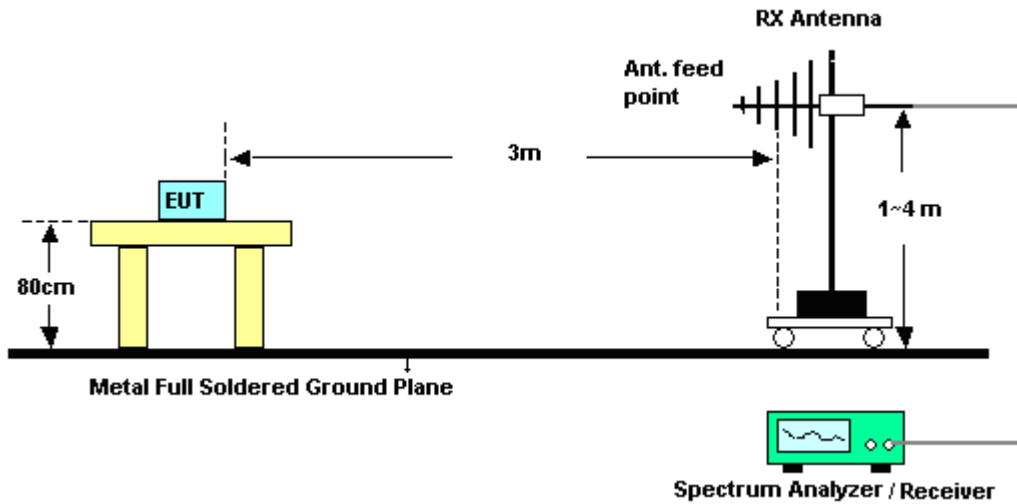
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

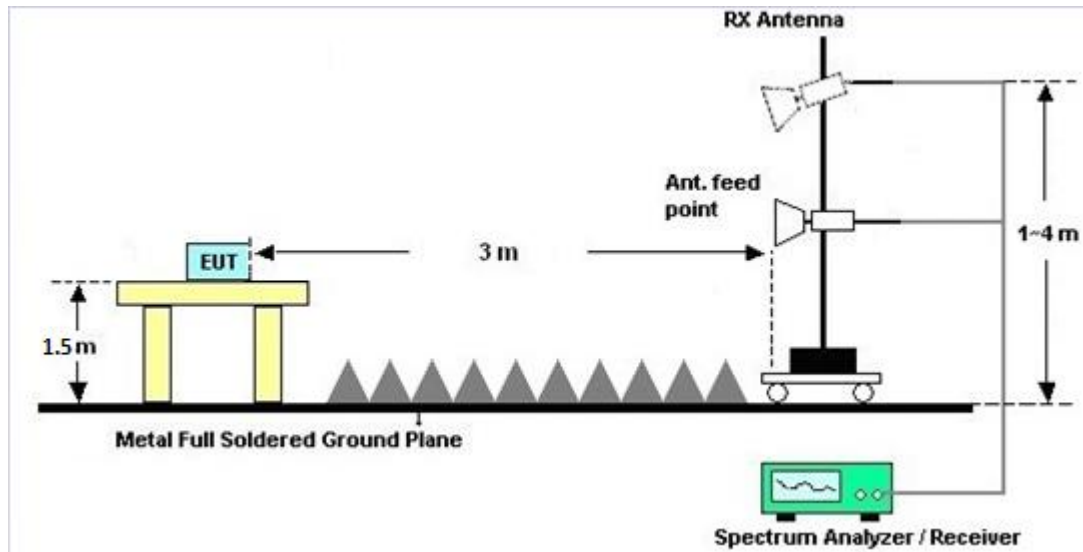
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

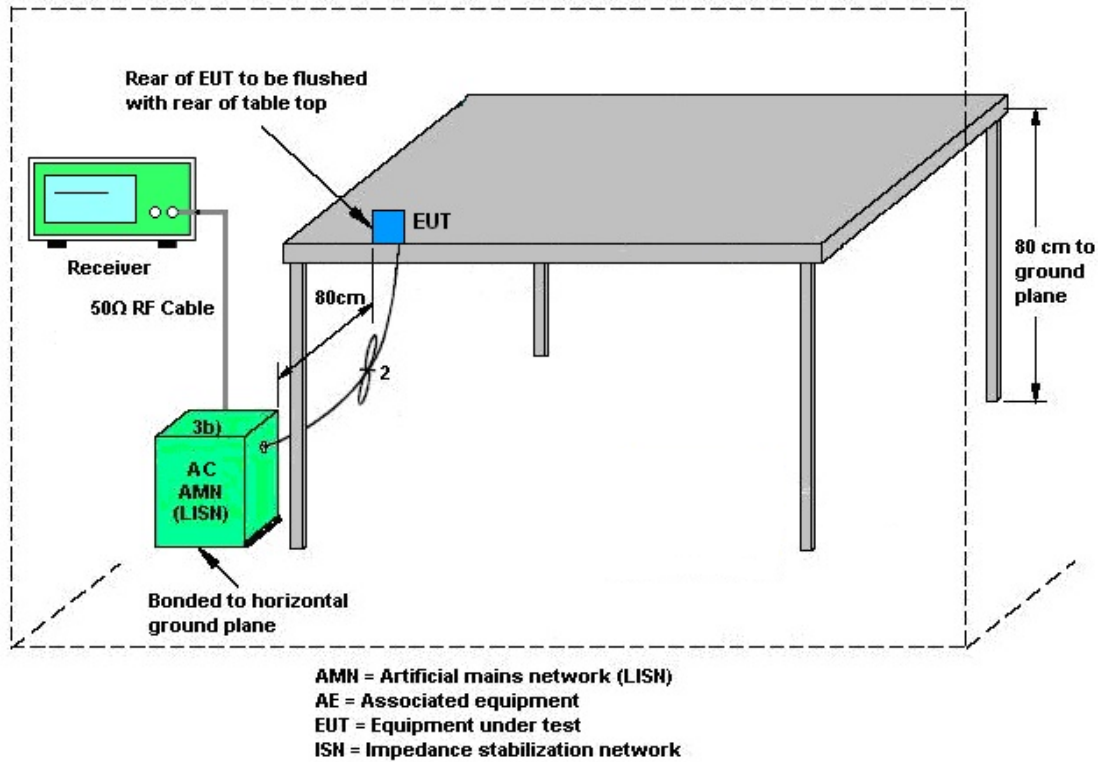
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 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.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

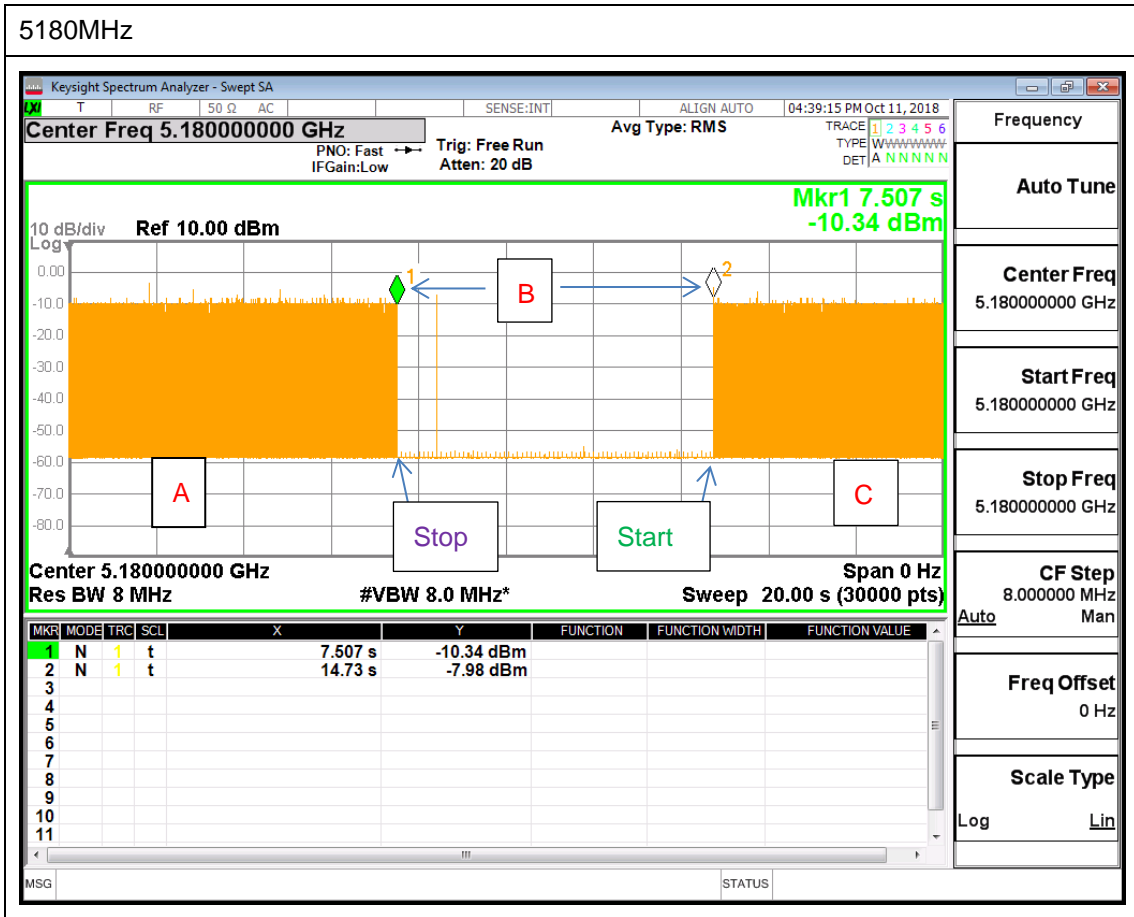
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- 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.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
	Ant. 1	Ant. 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
			(dBi)	(dBi)	(dB)	(dB)
Band I	3.18	1.55	3.18	5.41	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.18	1.55	5.41	5.41	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 15, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Oct. 15, 2018	Dec. 07, 2018	Conduction (CO05-HY)
ISN	TESEQ	ISN T8-Cat6	38909	N/A	Jan. 29, 2018	Oct. 15, 2018	Jan. 28, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Oct. 15, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Oct. 15, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 15, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Oct. 15, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Oct. 15, 2018	Jan. 02, 2019	Conduction (CO05-HY)
<CDD Modes>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Oct. 03, 2018~ Oct. 17, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Oct. 03, 2018~ Oct. 17, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Oct. 03, 2018~ Oct. 17, 2018	Nov. 12, 2018	Conducted (TH05-HY)
<TXBF Modes >								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Oct. 10, 2018~ Oct. 26, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Oct. 10, 2018~ Oct. 26, 2018	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Oct. 10, 2018~ Oct. 26, 2018	Nov. 12, 2018	Conducted (TH05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jun. 29, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jun. 28, 2019	Radiation (03CH13-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Oct. 06, 2018~ Oct. 18, 2018	Nov. 09, 2018	Radiation (03CH13-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jul. 15, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1G Low pass Filter	Nov. 21, 2017	Oct. 06, 2018~ Oct. 18, 2018	Nov. 22, 2018	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN4	6.75G High Pass	May 22, 2018	Oct. 06, 2018~ Oct. 18, 2018	May 21, 2019	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Jan. 19, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 18, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Jan. 10, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 09, 2019	Radiation (03CH13-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0054001	1GHz~18GHz	Apr. 16, 2018	Oct. 06, 2018~ Oct. 18, 2018	Apr. 15, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Feb. 02, 2018	Oct. 06, 2018~ Oct. 18, 2018	Feb. 01, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 15, 2018	Oct. 06, 2018~ Oct. 18, 2018	Mar. 14, 2019	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 06, 2018~ Oct. 18, 2018	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 06, 2018~ Oct. 18, 2018	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Oct. 06, 2018~ Oct. 18, 2018	Nov. 26, 2018	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY532900 53	20Hz to 26.5GHz	Jan. 16, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 15, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Jan. 22, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	335041/4	30M-18G	Jan. 22, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M~18GHz	Jan. 22, 2018	Oct. 06, 2018~ Oct. 18, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 14, 2018	Oct. 06, 2018~ Oct. 18, 2018	Mar. 13, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 14, 2018	Oct. 06, 2018~ Oct. 18, 2018	Mar. 13, 2019	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Oct. 06, 2018~ Oct. 18, 2018	N/A	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY571201 84	10Hz~7GHz	Nov. 08 ,2017	Oct. 11, 2018	Nov. 07, 2018	DFS (DFS02-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3
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Appendix A. Test Result of Conducted Test Items**<CDD Mode>**

Test Engineer:	Richard/Allen Lin/Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/10/3~2018/10/17	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	16.75	17.00	25.45	29.75	-	-	22.24	22.30		
11a	6Mbps	1	44	5220	16.95	16.90	33.80	30.35	-	-	22.29	22.28		
11a	6Mbps	1	48	5240	16.95	16.95	33.90	30.05	-	-	22.29	22.29		
HT20	MCS0	1	36	5180	17.75	17.85	29.70	33.17	-	-	22.49	22.52		
HT20	MCS0	1	44	5220	17.85	17.80	33.34	30.69	-	-	22.52	22.50		
HT20	MCS0	1	48	5240	17.85	17.80	33.00	30.80	-	-	22.52	22.50		
HT40	MCS0	1	38	5190	36.40	36.50	41.40	41.40	-	-	23.01	23.01		
HT40	MCS0	1	46	5230	36.70	36.50	69.12	68.58	-	-	23.01	23.01		
VHT80	MCS0	1	42	5210	76.92	76.92	81.92	82.00	-	-	23.01	23.01		
11a	6Mbps	2	36	5180	16.70	16.50	26.10	26.20	-	-	22.17			
11a	6Mbps	2	44	5220	16.70	16.55	26.60	26.06	-	-	22.19			
11a	6Mbps	2	48	5240	16.75	16.60	27.96	26.00	-	-	22.20			
HT20	MCS0	2	36	5180	17.75	17.75	30.56	29.80	-	-	22.49			
HT20	MCS0	2	44	5220	17.70	17.65	30.60	29.45	-	-	22.47			
HT20	MCS0	2	48	5240	17.80	17.70	32.10	28.96	-	-	22.48			
HT40	MCS0	2	38	5190	36.40	36.60	41.40	41.22	-	-	23.01			
HT40	MCS0	2	46	5230	36.80	36.70	69.66	66.96	-	-	23.01			
VHT80	MCS0	2	42	5210	76.80	76.80	82.01	80.64	-	-	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	0.33	0.30	17.76	20.18		24.00	24.00	3.18	1.55		Pass
11a	6Mbps	1	44	5220	0.33	0.30	19.49	19.89		24.00	24.00	3.18	1.55		Pass
11a	6Mbps	1	48	5240	0.33	0.30	19.58	20.03		24.00	24.00	3.18	1.55		Pass
HT20	MCS0	1	36	5180	0.32	0.35	17.59	19.13		24.00	24.00	3.18	1.55		Pass
HT20	MCS0	1	44	5220	0.32	0.35	18.51	18.95		24.00	24.00	3.18	1.55		Pass
HT20	MCS0	1	48	5240	0.32	0.35	18.67	19.14		24.00	24.00	3.18	1.55		Pass
HT40	MCS0	1	38	5190	0.64	0.60	13.75	15.40		24.00	24.00	3.18	1.55		Pass
HT40	MCS0	1	46	5230	0.64	0.60	18.51	18.82		24.00	24.00	3.18	1.55		Pass
VHT20	MCS0	1	36	5180	0.35	0.35	17.44	19.10		24.00	24.00	3.18	1.55		Pass
VHT20	MCS0	1	44	5220	0.35	0.35	18.48	18.90		24.00	24.00	3.18	1.55		Pass
VHT20	MCS0	1	48	5240	0.35	0.35	18.65	19.07		24.00	24.00	3.18	1.55		Pass
VHT40	MCS0	1	38	5190	0.65	0.63	13.68	15.40		24.00	24.00	3.18	1.55		Pass
VHT40	MCS0	1	46	5230	0.65	0.63	18.43	18.78		24.00	24.00	3.18	1.55		Pass
VHT80	MCS0	1	42	5210	1.22	1.17	9.48	14.37		24.00	24.00	3.18	1.55		Pass
11a	6Mbps	2	36	5180	0.31	0.30	17.99	18.10	21.06	24.00		3.18			Pass
11a	6Mbps	2	44	5220	0.31	0.30	18.37	18.02	21.21	24.00		3.18			Pass
11a	6Mbps	2	48	5240	0.31	0.30	18.33	18.11	21.23	24.00		3.18			Pass
HT20	MCS0	2	36	5180	0.32	0.32	17.87	18.17	21.03	24.00		3.18			Pass
HT20	MCS0	2	44	5220	0.32	0.32	18.36	18.21	21.30	24.00		3.18			Pass
HT20	MCS0	2	48	5240	0.32	0.32	18.17	18.09	21.14	24.00		3.18			Pass
HT40	MCS0	2	38	5190	0.60	0.67	13.18	13.42	16.31	24.00		3.18			Pass
HT40	MCS0	2	46	5230	0.60	0.67	18.59	19.19	21.91	24.00		3.18			Pass
VHT20	MCS0	2	36	5180	0.32	0.33	17.87	18.17	21.03	24.00		3.18			Pass
VHT20	MCS0	2	44	5220	0.32	0.33	18.32	18.18	21.26	24.00		3.18			Pass
VHT20	MCS0	2	48	5240	0.32	0.33	18.13	18.06	21.11	24.00		3.18			Pass
VHT40	MCS0	2	38	5190	0.62	0.62	13.14	13.43	16.30	24.00		3.18			Pass
VHT40	MCS0	2	46	5230	0.62	0.62	18.66	19.02	21.85	24.00		3.18			Pass
VHT80	MCS0	2	42	5210	1.17	1.22	10.13	9.40	12.79	24.00		3.18			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.33	0.30	7.31	9.45		11.00	11.00	3.18	1.55		Pass
11a	6Mbps	1	44	5220	0.33	0.30	9.74	9.37		11.00	11.00	3.18	1.55		Pass
11a	6Mbps	1	48	5240	0.33	0.30	9.59	9.54		11.00	11.00	3.18	1.55		Pass
HT20	MCS0	1	36	5180	0.32	0.35	6.99	8.47		11.00	11.00	3.18	1.55		Pass
HT20	MCS0	1	44	5220	0.32	0.35	8.88	8.43		11.00	11.00	3.18	1.55		Pass
HT20	MCS0	1	48	5240	0.32	0.35	8.78	8.61		11.00	11.00	3.18	1.55		Pass
HT40	MCS0	1	38	5190	0.64	0.60	-0.36	1.84		11.00	11.00	3.18	1.55		Pass
HT40	MCS0	1	46	5230	0.64	0.60	5.36	5.00		11.00	11.00	3.18	1.55		Pass
VHT80	MCS0	1	42	5210	1.22	1.17	-7.94	-2.59		11.00	11.00	3.18	1.55		Pass
11a	6Mbps	2	36	5180	0.31	0.30			10.55	11.00		5.41			Pass
11a	6Mbps	2	44	5220	0.31	0.30			10.91	11.00		5.41			Pass
11a	6Mbps	2	48	5240	0.31	0.30			10.94	11.00		5.41			Pass
HT20	MCS0	2	36	5180	0.32	0.32			10.70	11.00		5.41			Pass
HT20	MCS0	2	44	5220	0.32	0.32			10.73	11.00		5.41			Pass
HT20	MCS0	2	48	5240	0.32	0.32			10.92	11.00		5.41			Pass
HT40	MCS0	2	38	5190	0.60	0.67			2.88	11.00		5.41			Pass
HT40	MCS0	2	46	5230	0.60	0.67			8.34	11.00		5.41			Pass
VHT80	MCS0	2	42	5210	1.17	1.22			-4.47	11.00		5.41			Pass

<TXBF Mode>

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/10/10~2018/10/26	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		
VHT20	MCS0	2	36	5180	17.75	17.60	24.03	23.63	-	-	22.46	-		
VHT20	MCS0	2	44	5220	17.70	17.70	29.13	27.70	-	-	22.48	-		
VHT20	MCS0	2	48	5240	17.80	17.65	31.06	27.09	-	-	22.47	-		
VHT40	MCS0	2	38	5190	36.50	36.50	41.22	41.04	-	-	23.01	-		
VHT40	MCS0	2	46	5230	36.60	36.60	57.48	43.24	-	-	23.01	-		
VHT80	MCS0	2	42	5210	77.04	76.92	81.92	80.96	-	-	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		
VHT20	MCS0	2	36	5180	0.13	0.13	16.84	17.05	19.96	24.00	5.41			Pass	
VHT20	MCS0	2	44	5220	0.13	0.13	18.29	18.18	21.25	24.00	5.41			Pass	
VHT20	MCS0	2	48	5240	0.13	0.13	18.34	18.17	21.27	24.00	5.41			Pass	
VHT40	MCS0	2	38	5190	0.26	0.26	11.63	11.03	14.35	24.00	5.41			Pass	
VHT40	MCS0	2	46	5230	0.26	0.26	18.70	18.44	21.58	24.00	5.41			Pass	
VHT80	MCS0	2	42	5210	0.51	0.51	8.03	7.02	10.57	24.00	5.41			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		
VHT20	MCS0	2	36	5180	0.13	0.13			9.25	11.00	5.41				Pass
VHT20	MCS0	2	44	5220	0.13	0.13			10.75	11.00	5.41				Pass
VHT20	MCS0	2	48	5240	0.13	0.13			10.80	11.00	5.41				Pass
VHT40	MCS0	2	38	5190	0.26	0.26			0.24	11.00	5.41				Pass
VHT40	MCS0	2	46	5230	0.26	0.26			7.63	11.00	5.41				Pass
VHT80	MCS0	2	42	5210	0.51	0.51			-6.63	11.00	5.41				Pass



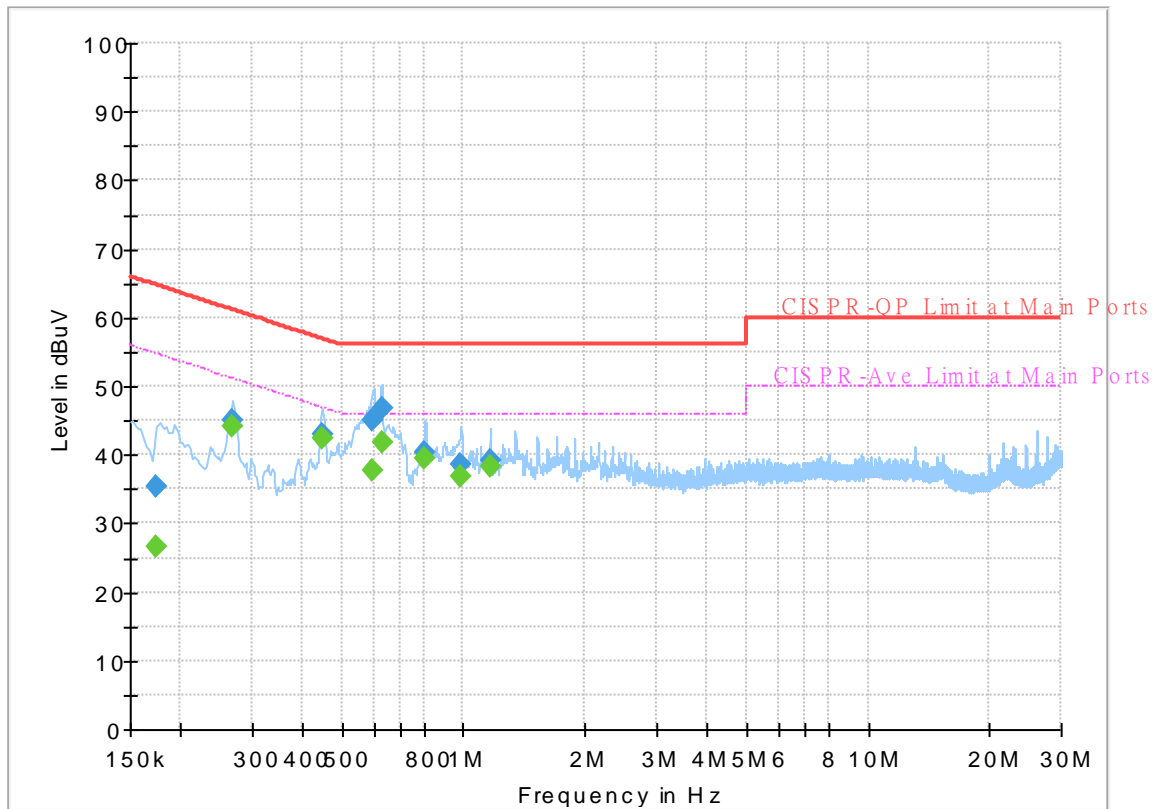
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Rick Lin	Temperature :	24~26°C
		Relative Humidity :	55~58%

EUT Information

Report NO : 842410-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



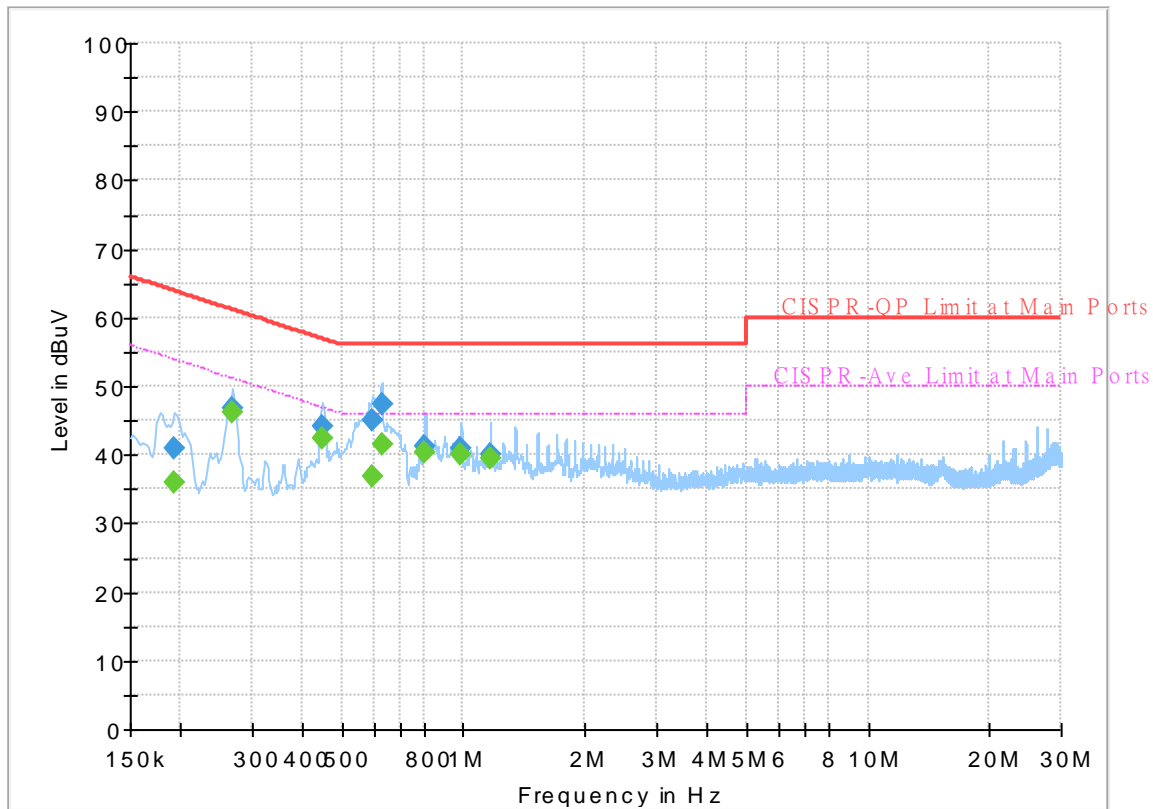
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174750	---	26.59	54.73	28.14	L1	OFF	19.5
0.174750	35.32	---	64.73	29.41	L1	OFF	19.5
0.269250	---	44.09	51.14	7.05	L1	OFF	19.5
0.269250	45.10	---	61.14	16.04	L1	OFF	19.5
0.447000	---	42.37	46.93	4.56	L1	OFF	19.5
0.447000	43.12	---	56.93	13.81	L1	OFF	19.5
0.597750	---	37.73	46.00	8.27	L1	OFF	19.5
0.597750	45.13	---	56.00	10.87	L1	OFF	19.5
0.627000	---	41.83	46.00	4.17	L1	OFF	19.6
0.627000	46.90	---	56.00	9.10	L1	OFF	19.6
0.804750	---	39.35	46.00	6.65	L1	OFF	19.6
0.804750	40.30	---	56.00	15.70	L1	OFF	19.6
0.982500	---	36.91	46.00	9.09	L1	OFF	19.6
0.982500	38.49	---	56.00	17.51	L1	OFF	19.6
1.164750	---	38.34	46.00	7.66	L1	OFF	19.6
1.164750	39.31	---	56.00	16.69	L1	OFF	19.6

EUT Information

Report NO : 842410-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.192750	---	36.04	53.92	17.88	N	OFF	19.5
0.192750	41.02	---	63.92	22.90	N	OFF	19.5
0.269250	---	46.11	51.14	5.03	N	OFF	19.5
0.269250	46.86	---	61.14	14.28	N	OFF	19.5
0.449250	---	42.51	46.89	4.38	N	OFF	19.5
0.449250	44.09	---	56.89	12.80	N	OFF	19.5
0.595500	---	36.80	46.00	9.20	N	OFF	19.5
0.595500	44.92	---	56.00	11.08	N	OFF	19.5
0.627000	---	41.61	46.00	4.39	N	OFF	19.6
0.627000	47.46	---	56.00	8.54	N	OFF	19.6
0.804750	---	40.37	46.00	5.63	N	OFF	19.6
0.804750	41.19	---	56.00	14.81	N	OFF	19.6
0.984750	---	40.16	46.00	5.84	N	OFF	19.6
0.984750	40.83	---	56.00	15.17	N	OFF	19.6
1.164750	---	39.58	46.00	6.42	N	OFF	19.6
1.164750	40.16	---	56.00	15.84	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Fu Chen, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	50~52%

<CDD Mode>

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

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5145.86	60.28	-13.72	74	49.97	31.69	8.17	29.55	273	323	P	H
		5149.5	53.43	-0.57	54	43.12	31.69	8.17	29.55	273	323	A	H
	*	5180	114.97	-	-	104.59	31.71	8.22	29.55	273	323	P	H
	*	5180	107.83	-	-	97.45	31.71	8.22	29.55	273	323	A	H
		5149.76	58.61	-15.39	74	48.3	31.69	8.17	29.55	204	331	P	V
		5149.76	49.2	-4.8	54	38.89	31.69	8.17	29.55	204	331	A	V
	*	5180	110.34	-	-	99.96	31.71	8.22	29.55	204	331	P	V
	*	5180	103.34	-	-	92.96	31.71	8.22	29.55	204	331	A	V
802.11a CH 44 5220MHz		5116.22	57.67	-16.33	74	47.41	31.67	8.13	29.54	279	320	P	H
		5149.76	48.09	-5.91	54	37.78	31.69	8.17	29.55	279	320	A	H
	*	5220	116.52	-	-	106.1	31.73	8.25	29.56	279	320	P	H
	*	5220	109.2	-	-	98.78	31.73	8.25	29.56	279	320	A	H
		5359.2	52.48	-21.52	74	41.94	31.81	8.3	29.57	279	320	P	H
		5354.72	44.15	-9.85	54	33.62	31.81	8.29	29.57	279	320	A	H
		5144.56	53.11	-20.89	74	42.8	31.69	8.17	29.55	204	327	P	V
		5125.06	45.23	-8.77	54	34.95	31.68	8.15	29.55	204	327	A	V
	*	5220	111.93	-	-	101.51	31.73	8.25	29.56	204	327	P	V
	*	5220	104.8	-	-	94.38	31.73	8.25	29.56	204	327	A	V
		5353.04	50.65	-23.35	74	40.12	31.81	8.29	29.57	204	327	P	V
	5452.72	41.63	-12.37	54	30.89	31.87	8.46	29.59	204	327	A	V	



802.11a CH 48 5240MHz		5063.18	55.74	-18.26	74	45.58	31.64	8.06	29.54	283	323	P	H
		5150	47.68	-6.32	54	37.37	31.69	8.17	29.55	283	323	A	H
	*	5240	116.67	-	-	106.24	31.74	8.25	29.56	283	323	P	H
	*	5240	109.59	-	-	99.16	31.74	8.25	29.56	283	323	A	H
		5393.08	52.05	-21.95	74	41.5	31.83	8.3	29.58	283	323	P	H
		5352.2	44.45	-9.55	54	33.92	31.81	8.29	29.57	283	323	A	H
		5116.74	53.1	-20.9	74	42.84	31.67	8.13	29.54	259	330	P	V
		5150	44.72	-9.28	54	34.41	31.69	8.17	29.55	259	330	A	V
	*	5240	111.76	-	-	101.33	31.74	8.25	29.56	259	330	P	V
	*	5240	104.81	-	-	94.38	31.74	8.25	29.56	259	330	A	V
		5458.88	50.03	-23.97	74	39.29	31.87	8.46	29.59	259	330	P	V
		5453.56	41.58	-12.42	54	30.84	31.87	8.46	29.59	259	330	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	46.21	-21.99	68.2	54.87	39.76	12.34	60.76	100	0	P	H
		15540	46.83	-27.17	74	54.17	38.62	14.61	60.57	100	0	P	H
		10360	44.71	-23.49	68.2	53.37	39.76	12.34	60.76	100	0	P	V
		15540	45.04	-28.96	74	52.38	38.62	14.61	60.57	100	0	P	V
802.11a CH 44 5220MHz		10440	47.38	-20.82	68.2	56.02	39.88	12.36	60.88	100	0	P	H
		15660	46.64	-27.36	74	54.12	38.33	14.67	60.48	100	0	P	H
		10440	46.7	-21.5	68.2	55.34	39.88	12.36	60.88	100	0	P	V
		15660	46	-28	74	53.48	38.33	14.67	60.48	100	0	P	V
802.11a CH 48 5240MHz		10480	47.18	-21.02	68.2	55.8	39.97	12.38	60.97	100	0	P	H
		15720	47.6	-26.4	74	55.18	38.16	14.68	60.42	100	0	P	H
		10480	46.38	-21.82	68.2	55	39.97	12.38	60.97	100	0	P	V
		15720	46.51	-27.49	74	54.09	38.16	14.68	60.42	100	0	P	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.98	66.41	-7.59	74	56.1	31.69	8.17	29.55	280	322	P	H
		5150	53.01	-0.99	54	42.7	31.69	8.17	29.55	280	322	A	H
	*	5180	114.55	-	-	104.17	31.71	8.22	29.55	280	322	P	H
	*	5180	107.51	-	-	97.13	31.71	8.22	29.55	280	322	A	H
		5140.14	58.39	-15.61	74	48.1	31.69	8.15	29.55	236	327	P	V
		5150	48.88	-5.12	54	38.57	31.69	8.17	29.55	236	327	A	V
	*	5180	109.73	-	-	99.35	31.71	8.22	29.55	236	327	P	V
	*	5180	102.63	-	-	92.25	31.71	8.22	29.55	236	327	A	V
802.11n HT20 CH 44 5220MHz		5122.72	56.86	-17.14	74	46.6	31.68	8.13	29.55	269	322	P	H
		5148.2	48.77	-5.23	54	38.46	31.69	8.17	29.55	269	322	A	H
	*	5220	115.87	-	-	105.45	31.73	8.25	29.56	269	322	P	H
	*	5220	108.79	-	-	98.37	31.73	8.25	29.56	269	322	A	H
		5365.64	52.27	-21.73	74	41.72	31.82	8.3	29.57	269	322	P	H
		5351.36	44.22	-9.78	54	33.69	31.81	8.29	29.57	269	322	A	H
		5121.16	54.13	-19.87	74	43.88	31.67	8.13	29.55	233	328	P	V
		5130.52	45.45	-8.55	54	35.17	31.68	8.15	29.55	233	328	A	V
	*	5220	110.96	-	-	100.54	31.73	8.25	29.56	233	328	P	V
	*	5220	103.91	-	-	93.49	31.73	8.25	29.56	233	328	A	V
		5445.72	50.57	-23.43	74	39.87	31.87	8.41	29.58	233	328	P	V
	5364.24	41.66	-12.34	54	31.11	31.82	8.3	29.57	233	328	A	V	



802.11n HT20 CH 48 5240MHz		5124.54	56.29	-17.71	74	46.01	31.68	8.15	29.55	268	319	P	H
		5147.68	48.31	-5.69	54	38	31.69	8.17	29.55	268	319	A	H
	*	5240	115.58	-	-	105.15	31.74	8.25	29.56	268	319	P	H
	*	5240	108.62	-	-	98.19	31.74	8.25	29.56	268	319	A	H
		5369.84	53.36	-20.64	74	42.81	31.82	8.3	29.57	268	319	P	H
		5351.08	45.12	-8.88	54	34.59	31.81	8.29	29.57	268	319	A	H
		5102.96	53.24	-20.76	74	43.02	31.66	8.1	29.54	216	328	P	V
		5146.9	45.01	-8.99	54	34.7	31.69	8.17	29.55	216	328	A	V
	*	5240	110.65	-	-	100.22	31.74	8.25	29.56	216	328	P	V
	*	5240	103.63	-	-	93.2	31.74	8.25	29.56	216	328	A	V
		5444.32	50.79	-23.21	74	40.1	31.86	8.41	29.58	216	328	P	V
		5365.08	41.86	-12.14	54	31.31	31.82	8.3	29.57	216	328	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36		10360	44.67	-23.53	68.2	53.33	39.76	12.34	60.76	100	0	P	H
		15540	46.01	-27.99	74	53.35	38.62	14.61	60.57	100	0	P	H
5180MHz		10360	44.98	-23.22	68.2	53.64	39.76	12.34	60.76	100	0	P	V
		15540	44.52	-29.48	74	51.86	38.62	14.61	60.57	100	0	P	V
802.11n HT20 CH 44		10440	46.87	-21.33	68.2	55.51	39.88	12.36	60.88	100	0	P	H
		15660	46.1	-27.9	74	53.58	38.33	14.67	60.48	100	0	P	H
		10440	48.61	-19.59	68.2	57.25	39.88	12.36	60.88	100	0	P	V
		15660	44.81	-29.19	74	52.29	38.33	14.67	60.48	100	0	P	V
802.11n HT20 CH 48		10480	46.77	-21.43	68.2	55.39	39.97	12.38	60.97	100	0	P	H
		15720	45.22	-28.78	74	52.8	38.16	14.68	60.42	100	0	P	H
		10480	46.43	-21.77	68.2	55.05	39.97	12.38	60.97	100	0	P	V
		15720	44.69	-29.31	74	52.27	38.16	14.68	60.42	100	0	P	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)	Path 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	67.51	-6.49	74	57.2	31.69	8.17	29.55	269	319	P	H
		5150	52.58	-1.42	54	42.27	31.69	8.17	29.55	269	319	A	H
	*	5190	107.1	-	-	96.72	31.71	8.22	29.55	269	319	P	H
	*	5190	100.11	-	-	89.73	31.71	8.22	29.55	269	319	A	H
		5356.96	52.47	-21.53	74	41.94	31.81	8.29	29.57	269	319	P	H
		5362	43.87	-10.13	54	33.32	31.82	8.3	29.57	269	319	A	H
		5149.24	60.82	-13.18	74	50.51	31.69	8.17	29.55	218	328	P	V
		5150	49.24	-4.76	54	38.93	31.69	8.17	29.55	218	328	A	V
	*	5190	102.59	-	-	92.21	31.71	8.22	29.55	218	328	P	V
	*	5190	95.56	-	-	85.18	31.71	8.22	29.55	218	328	A	V
		5350.8	50.27	-23.73	74	39.74	31.81	8.29	29.57	218	328	P	V
		5456.08	42.11	-11.89	54	31.37	31.87	8.46	29.59	218	328	A	V
802.11n HT40 CH 46 5230MHz		5146.38	59.82	-14.18	74	49.51	31.69	8.17	29.55	277	322	P	H
		5149.5	51.43	-2.57	54	41.12	31.69	8.17	29.55	277	322	A	H
	*	5230	112.79	-	-	102.36	31.74	8.25	29.56	277	322	P	H
	*	5230	105.64	-	-	95.21	31.74	8.25	29.56	277	322	A	H
		5355.84	52.24	-21.76	74	41.71	31.81	8.29	29.57	277	322	P	H
		5352.48	45.12	-8.88	54	34.59	31.81	8.29	29.57	277	322	A	H
		5143	53.99	-20.01	74	43.68	31.69	8.17	29.55	203	329	P	V
		5149.5	47.45	-6.55	54	37.14	31.69	8.17	29.55	203	329	A	V
	*	5230	107.84	-	-	97.41	31.74	8.25	29.56	203	329	P	V
	*	5230	100.77	-	-	90.34	31.74	8.25	29.56	203	329	A	V
	5442.08	50.71	-23.29	74	40.02	31.86	8.41	29.58	203	329	P	V	
	5460	42.4	-11.6	54	31.66	31.87	8.46	29.59	203	329	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)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11n HT40 CH 38 (5190MHz) and 802.11n HT40 CH 46 (5230MHz).

Remark

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



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5144.04	58.26	-15.74	74	47.95	31.69	8.17	29.55	273	321	P	H
		5148.72	53.13	-0.87	54	42.82	31.69	8.17	29.55	273	321	A	H
	*	5210	100.91	-	-	90.5	31.73	8.24	29.56	273	321	P	H
	*	5210	94.79	-	-	84.38	31.73	8.24	29.56	273	321	A	H
		5450.48	50.17	-23.83	74	39.43	31.87	8.46	29.59	273	321	P	H
		5434.24	44.24	-9.76	54	33.55	31.86	8.41	29.58	273	321	A	H
		5135.72	55.9	-18.1	74	45.62	31.68	8.15	29.55	242	328	P	V
		5149.5	49.11	-4.89	54	38.8	31.69	8.17	29.55	242	328	A	V
	*	5210	96.01	-	-	85.6	31.73	8.24	29.56	242	328	P	V
	*	5210	89.16	-	-	78.75	31.73	8.24	29.56	242	328	A	V
		5419.4	51.28	-22.72	74	40.65	31.85	8.36	29.58	242	328	P	V
	5449.08	43.64	-10.36	54	32.89	31.87	8.46	29.58	242	328	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.91	-22.29	68.2	54.55	39.85	12.36	60.85	100	0	P	H
		15630	43.3	-30.7	74	50.77	38.37	14.65	60.49	100	0	P	H
		10420	45.86	-22.34	68.2	54.5	39.85	12.36	60.85	100	0	P	V
		15630	44.44	-29.56	74	51.91	38.37	14.65	60.49	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 LF		31.35	23.79	-16.21	40	32.19	23.96	-0.02	32.34	-	-	P	H
		149.88	24.43	-19.07	43.5	39.5	17.16	0.05	32.28	-	-	P	H
		282.72	23.91	-22.09	46	37.1	18.89	0.07	32.15	-	-	P	H
		563.2	25.42	-20.58	46	31.64	25.89	0.1	32.21	-	-	P	H
		895.7	30.64	-15.36	46	33.04	29.02	0.11	31.53	100	0	P	H
		956.6	29.37	-16.63	46	29.26	30.96	0.14	30.99	-	-	P	H
		31.08	31.97	-8.03	40	40.37	23.96	-0.02	32.34	100	0	P	V
		72.93	21.89	-18.11	40	41.23	12.86	0.11	32.31	-	-	P	V
		182.82	24.08	-19.42	43.5	41.21	15.06	0.08	32.27	-	-	P	V
		778.1	27.41	-18.59	46	31.07	28.26	0.11	32.03	-	-	P	V
		896.4	31.65	-14.35	46	34.05	29.02	0.11	31.53	-	-	P	V
		938.4	32.97	-13.03	46	33.99	30.01	0.13	31.16	-	-	P	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	Path	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		5146.12	62.9	-11.1	74	52.59	31.69	8.17	29.55	334	162	P	H
		5150	51.88	-2.12	54	41.57	31.69	8.17	29.55	334	162	A	H
	*	5180	111.1	-	-	100.72	31.71	8.22	29.55	334	162	P	H
	*	5180	104.04	-	-	93.66	31.71	8.22	29.55	334	162	A	H
		5147.16	61.06	-12.94	74	50.75	31.69	8.17	29.55	102	226	P	V
		5150	53.13	-0.87	54	42.82	31.69	8.17	29.55	102	226	A	V
	*	5180	112.05	-	-	101.67	31.71	8.22	29.55	102	226	P	V
	*	5180	104.92	-	-	94.54	31.71	8.22	29.55	102	226	A	V
802.11a CH 44 5220MHz		5104.26	52.74	-21.26	74	42.52	31.66	8.1	29.54	333	164	P	H
		5150	44.37	-9.63	54	34.06	31.69	8.17	29.55	333	164	A	H
	*	5220	110.7	-	-	100.28	31.73	8.25	29.56	333	164	P	H
	*	5220	103.57	-	-	93.15	31.73	8.25	29.56	333	164	A	H
		5443.2	50.64	-23.36	74	39.95	31.86	8.41	29.58	333	164	P	H
		5456.08	41.88	-12.12	54	31.14	31.87	8.46	29.59	333	164	A	H
		5140.14	53.17	-20.83	74	42.88	31.69	8.15	29.55	112	224	P	V
		5150	44.55	-9.45	54	34.24	31.69	8.17	29.55	112	224	A	V
	*	5220	111.93	-	-	101.51	31.73	8.25	29.56	112	224	P	V
	*	5220	104.5	-	-	94.08	31.73	8.25	29.56	112	224	A	V
		5388.04	51.76	-22.24	74	41.21	31.83	8.3	29.58	112	224	P	V
		5363.68	41.85	-12.15	54	31.3	31.82	8.3	29.57	112	224	A	V



802.11a CH 48 5240MHz		5086.06	52.26	-21.74	74	42.07	31.65	8.08	29.54	346	162	P	H
		5118.82	44.03	-9.97	54	33.78	31.67	8.13	29.55	346	162	A	H
	*	5240	111.19	-	-	100.76	31.74	8.25	29.56	346	162	P	H
	*	5240	103.74	-	-	93.31	31.74	8.25	29.56	346	162	A	H
		5406.24	51.52	-22.48	74	40.95	31.84	8.31	29.58	346	162	P	H
		5351.92	42.34	-11.66	54	31.81	31.81	8.29	29.57	346	162	A	H
		5123.5	51.76	-22.24	74	41.5	31.68	8.13	29.55	107	229	P	V
		5148.46	44.02	-9.98	54	33.71	31.69	8.17	29.55	107	229	A	V
	*	5240	111.98	-	-	101.55	31.74	8.25	29.56	107	229	P	V
	*	5240	104.83	-	-	94.4	31.74	8.25	29.56	107	229	A	V
		5350	50.61	-23.39	74	40.08	31.81	8.29	29.57	107	229	P	V
		5350.24	41.93	-12.07	54	31.4	31.81	8.29	29.57	107	229	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	45.97	-22.23	68.2	54.63	39.76	12.34	60.76	100	0	P	H
		15540	55.33	-18.67	74	62.67	38.62	14.61	60.57	100	305	P	H
		15540	48.44	-5.56	54	55.78	38.62	14.61	60.57	100	305	A	H
		10360	46.45	-21.75	68.2	55.11	39.76	12.34	60.76	100	0	P	V
		15540	55.17	-18.83	74	62.51	38.62	14.61	60.57	100	131	P	V
		15540	47.16	-6.84	54	54.5	38.62	14.61	60.57	100	131	A	V
802.11a CH 44 5220MHz		10440	47.45	-20.75	68.2	56.09	39.88	12.36	60.88	100	0	P	H
		15660	51.44	-22.56	74	58.92	38.33	14.67	60.48	100	306	P	H
		15660	44.01	-9.99	54	51.49	38.33	14.67	60.48	100	306	A	H
		10440	47.96	-20.24	68.2	56.6	39.88	12.36	60.88	100	0	P	V
		15660	52.31	-21.69	74	59.79	38.33	14.67	60.48	100	131	P	V
		15660	44.64	-9.36	54	52.12	38.33	14.67	60.48	100	131	A	V
802.11a CH 48 5240MHz		10480	47.22	-20.98	68.2	55.84	39.97	12.38	60.97	100	0	P	H
		15720	49.26	-24.74	74	56.84	38.16	14.68	60.42	100	0	P	H
		10480	46.95	-21.25	68.2	55.57	39.97	12.38	60.97	100	0	P	V
		15720	47.88	-26.12	74	55.46	38.16	14.68	60.42	100	0	P	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5147.42	56.44	-17.56	74	46.13	31.69	8.17	29.55	333	161	P	H
		5149.5	49.86	-4.14	54	39.55	31.69	8.17	29.55	333	161	A	H
	*	5180	110.12	-	-	99.74	31.71	8.22	29.55	333	161	P	H
	*	5180	102.57	-	-	92.19	31.71	8.22	29.55	333	161	A	H
		5150	60.16	-13.84	74	49.85	31.69	8.17	29.55	101	228	P	V
		5149.5	51.53	-2.47	54	41.22	31.69	8.17	29.55	101	228	A	V
	*	5180	111.07	-	-	100.69	31.71	8.22	29.55	101	228	P	V
	5180	103.98	-	-	93.6	31.71	8.22	29.55	101	228	A	V	
802.11n HT20 CH 44 5220MHz		5138.84	53.03	-20.97	74	42.75	31.68	8.15	29.55	329	162	P	H
		5108.16	44.26	-9.74	54	34	31.67	8.13	29.54	329	162	A	H
	*	5220	109.27	-	-	98.85	31.73	8.25	29.56	329	162	P	H
	*	5220	102.12	-	-	91.7	31.73	8.25	29.56	329	162	A	H
		5458.88	52.02	-21.98	74	41.28	31.87	8.46	29.59	329	162	P	H
		5351.64	41.95	-12.05	54	31.42	31.81	8.29	29.57	329	162	A	H
		5133.9	52.05	-21.95	74	41.77	31.68	8.15	29.55	101	228	P	V
		5146.9	44.47	-9.53	54	34.16	31.69	8.17	29.55	101	228	A	V
	*	5220	110.14	-	-	99.72	31.73	8.25	29.56	101	228	P	V
	*	5220	103.02	-	-	92.6	31.73	8.25	29.56	101	228	A	V
		5451.04	50.61	-23.39	74	39.87	31.87	8.46	29.59	101	228	P	V
		5367.32	41.75	-12.25	54	31.2	31.82	8.3	29.57	101	228	A	V



802.11n HT20 CH 48 5240MHz		5009.88	52.39	-21.61	74	42.32	31.61	7.99	29.53	326	163	P	H
		5128.7	44.07	-9.93	54	33.79	31.68	8.15	29.55	326	163	A	H
	*	5240	109.58	-	-	99.15	31.74	8.25	29.56	326	163	P	H
	*	5240	102.37	-	-	91.94	31.74	8.25	29.56	326	163	A	H
		5375.16	50.59	-23.41	74	40.05	31.82	8.3	29.58	326	163	P	H
		5369.56	42.15	-11.85	54	31.6	31.82	8.3	29.57	326	163	A	H
		5138.58	52.4	-21.6	74	42.12	31.68	8.15	29.55	100	210	P	V
		5134.16	44.18	-9.82	54	33.9	31.68	8.15	29.55	100	210	A	V
	*	5240	110.55	-	-	100.12	31.74	8.25	29.56	100	210	P	V
	*	5240	103.41	-	-	92.98	31.74	8.25	29.56	100	210	A	V
		5410.16	51.22	-22.78	74	40.65	31.84	8.31	29.58	100	210	P	V
		5356.68	42.31	-11.69	54	31.78	31.81	8.29	29.57	100	210	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)	Path 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	45.49	-22.71	68.2	54.15	39.76	12.34	60.76	100	0	P	H
		15540	55.45	-18.55	74	62.79	38.62	14.61	60.57	100	305	P	H
		15540	47.74	-6.26	54	55.08	38.62	14.61	60.57	100	305	A	H
		10360	46.24	-21.96	68.2	54.9	39.76	12.34	60.76	100	0	P	V
		15540	54.81	-19.19	74	62.15	38.62	14.61	60.57	100	131	P	V
802.11n HT20 CH 44 5220MHz		10440	46.49	-21.71	68.2	55.13	39.88	12.36	60.88	100	0	P	H
		15660	48.32	-25.68	74	55.8	38.33	14.67	60.48	100	0	P	H
		10440	46.42	-21.78	68.2	55.06	39.88	12.36	60.88	100	0	P	V
		15660	48.53	-25.47	74	56.01	38.33	14.67	60.48	100	0	P	V
802.11n HT20 CH 48 5240MHz		10480	46.35	-21.85	68.2	54.97	39.97	12.38	60.97	100	0	P	H
		15720	48.17	-25.83	74	55.75	38.16	14.68	60.42	100	0	P	H
		10480	46	-22.2	68.2	54.62	39.97	12.38	60.97	100	0	P	V
		15720	48.13	-25.87	74	55.71	38.16	14.68	60.42	100	0	P	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5144.04	58.13	-15.87	74	47.82	31.69	8.17	29.55	334	163	P	H
		5149.24	51.7	-2.3	54	41.39	31.69	8.17	29.55	334	163	A	H
	*	5190	102.9	-	-	92.52	31.71	8.22	29.55	334	163	P	H
	*	5190	96.18	-	-	85.8	31.71	8.22	29.55	334	163	A	H
		5420.52	49.88	-24.12	74	39.25	31.85	8.36	29.58	334	163	P	H
		5457.76	42.42	-11.58	54	31.68	31.87	8.46	29.59	334	163	A	H
		5148.98	62.8	-11.2	74	52.49	31.69	8.17	29.55	102	228	P	V
		5149.5	52.48	-1.52	54	42.17	31.69	8.17	29.55	102	228	A	V
	*	5190	104.33	-	-	93.95	31.71	8.22	29.55	102	228	P	V
	*	5190	97.38	-	-	87	31.71	8.22	29.55	102	228	A	V
		5384.4	50.69	-23.31	74	40.14	31.83	8.3	29.58	102	228	P	V
		5429.2	42.35	-11.65	54	31.71	31.86	8.36	29.58	102	228	A	V
802.11n HT40 CH 46 5230MHz		5100.88	52.36	-21.64	74	42.14	31.66	8.1	29.54	346	162	P	H
		5146.38	44.77	-9.23	54	34.46	31.69	8.17	29.55	346	162	A	H
	*	5230	105.93	-	-	95.5	31.74	8.25	29.56	346	162	P	H
	*	5230	99.21	-	-	88.78	31.74	8.25	29.56	346	162	A	H
		5352.48	51.4	-22.6	74	40.87	31.81	8.29	29.57	346	162	P	H
		5363.12	42.68	-11.32	54	32.13	31.82	8.3	29.57	346	162	A	H
		5149.76	53.62	-20.38	74	43.31	31.69	8.17	29.55	106	229	P	V
		5150	45.07	-8.93	54	34.76	31.69	8.17	29.55	106	229	A	V
	*	5230	106.79	-	-	96.36	31.74	8.25	29.56	106	229	P	V
	*	5230	100.03	-	-	89.6	31.74	8.25	29.56	106	229	A	V
	5454.12	50.89	-23.11	74	40.15	31.87	8.46	29.59	106	229	P	V	
	5352.48	42.28	-11.72	54	31.75	31.81	8.29	29.57	106	229	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)

Table with 14 columns: WIFI Ant. 2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT40 CH 38 (5190MHz) and 802.11n HT40 CH 46 (5230MHz).

Remark

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



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5148.2	57.41	-16.59	74	47.1	31.69	8.17	29.55	330	160	P	H
		5145.86	51.81	-2.19	54	41.5	31.69	8.17	29.55	330	160	A	H
	*	5210	99.59	-	-	89.18	31.73	8.24	29.56	330	160	P	H
	*	5210	92.4	-	-	81.99	31.73	8.24	29.56	330	160	A	H
		5371.52	50.71	-23.29	74	40.16	31.82	8.3	29.57	330	160	P	H
		5457.2	44.05	-9.95	54	33.31	31.87	8.46	29.59	330	160	A	H
		5144.82	59.45	-14.55	74	49.14	31.69	8.17	29.55	115	226	P	V
		5148.46	53.09	-0.91	54	42.78	31.69	8.17	29.55	115	226	A	V
	*	5210	100.43	-	-	90.02	31.73	8.24	29.56	115	226	P	V
	*	5210	93.9	-	-	83.49	31.73	8.24	29.56	115	226	A	V
	5444.04	51.03	-22.97	74	40.34	31.86	8.41	29.58	115	226	P	V	
	5455.8	43.66	-10.34	54	32.92	31.87	8.46	29.59	115	226	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.74	-22.46	68.2	54.38	39.85	12.36	60.85	100	0	P	H
		15630	43.78	-30.22	74	51.25	38.37	14.65	60.49	100	0	P	H
		10420	46.75	-21.45	68.2	55.39	39.85	12.36	60.85	100	0	P	V
		15630	44.23	-29.77	74	51.7	38.37	14.65	60.49	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 LF		31.35	24.18	-15.82	40	32.58	23.96	-0.02	32.34	-	-	P	H
		150.15	23.33	-20.17	43.5	38.4	17.16	0.05	32.28	-	-	P	H
		282.72	23.51	-22.49	46	36.7	18.89	0.07	32.15	-	-	P	H
		563.2	26.01	-19.99	46	32.23	25.89	0.1	32.21	-	-	P	H
		885.2	34.4	-11.6	46	36.87	28.99	0.12	31.58	100	0	P	H
		959.4	29.5	-16.5	46	29.21	31.12	0.14	30.97	-	-	P	H
		31.08	31.69	-8.31	40	40.09	23.96	-0.02	32.34	100	0	P	V
		39.72	28.52	-11.48	40	41.14	19.71	0	32.33	-	-	P	V
		50.52	20.79	-19.21	40	38.56	14.53	0.02	32.32	-	-	P	V
		563.2	27.34	-18.66	46	33.56	25.89	0.1	32.21	-	-	P	V
		885.9	33.78	-12.22	46	36.26	28.99	0.11	31.58	-	-	P	V
		938.4	32.59	-13.41	46	33.61	30.01	0.13	31.16	-	-	P	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5146.9	62.82	-11.18	74	52.51	31.69	8.17	29.55	305	314	P	H
		5150	53.28	-0.72	54	42.97	31.69	8.17	29.55	305	314	A	H
	*	5180	115.87	-	-	105.49	31.71	8.22	29.55	305	314	P	H
	*	5180	108.79	-	-	98.41	31.71	8.22	29.55	305	314	A	H
		5148.98	61.53	-12.47	74	51.22	31.69	8.17	29.55	103	223	P	V
		5149.76	50.73	-3.27	54	40.42	31.69	8.17	29.55	103	223	A	V
	*	5180	112.62	-	-	102.24	31.71	8.22	29.55	103	223	P	V
	*	5180	105.66	-	-	95.28	31.71	8.22	29.55	103	223	A	V
802.11a CH 44 5220MHz		5137.28	56.46	-17.54	74	46.18	31.68	8.15	29.55	304	329	P	H
		5149.76	47.44	-6.56	54	37.13	31.69	8.17	29.55	304	329	A	H
	*	5220	117.15	-	-	106.73	31.73	8.25	29.56	304	329	P	H
	*	5220	110.24	-	-	99.82	31.73	8.25	29.56	304	329	A	H
		5357.52	51.43	-22.57	74	40.9	31.81	8.29	29.57	304	329	P	H
		5362.84	43.41	-10.59	54	32.86	31.82	8.3	29.57	304	329	A	H
		5092.3	52.32	-21.68	74	42.1	31.66	8.1	29.54	100	224	P	V
		5131.82	44.2	-9.8	54	33.92	31.68	8.15	29.55	100	224	A	V
	*	5220	114.66	-	-	104.24	31.73	8.25	29.56	100	224	P	V
	*	5220	107.66	-	-	97.24	31.73	8.25	29.56	100	224	A	V
		5418.56	50.4	-23.6	74	39.77	31.85	8.36	29.58	100	224	P	V
		5351.08	41.99	-12.01	54	31.46	31.81	8.29	29.57	100	224	A	V



802.11a CH 48 5240MHz		5128.44	53.44	-20.56	74	43.16	31.68	8.15	29.55	305	300	P	H
		5146.64	46.12	-7.88	54	35.81	31.69	8.17	29.55	305	300	A	H
	*	5240	117.12	-	-	106.69	31.74	8.25	29.56	305	300	P	H
	*	5240	110.02	-	-	99.59	31.74	8.25	29.56	305	300	A	H
		5362.56	53.37	-20.63	74	42.82	31.82	8.3	29.57	305	300	P	H
		5352.2	44.98	-9.02	54	34.45	31.81	8.29	29.57	305	300	A	H
		5114.66	52.65	-21.35	74	42.39	31.67	8.13	29.54	100	224	P	V
		5141.18	43.89	-10.11	54	33.6	31.69	8.15	29.55	100	224	A	V
	*	5240	114.65	-	-	104.22	31.74	8.25	29.56	100	224	P	V
	*	5240	107.75	-	-	97.32	31.74	8.25	29.56	100	224	A	V
		5446	50.02	-23.98	74	39.32	31.87	8.41	29.58	100	224	P	V
		5353.88	42.14	-11.86	54	31.61	31.81	8.29	29.57	100	224	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	47.92	-20.28	68.2	56.58	39.76	12.34	60.76	100	0	P	H
		15540	54.39	-19.61	74	61.73	38.62	14.61	60.57	100	305	P	H
		15540	46.75	-7.25	54	54.09	38.62	14.61	60.57	100	305	A	H
		10360	47.24	-20.96	68.2	55.9	39.76	12.34	60.76	100	0	P	V
		15540	53.25	-20.75	74	60.59	38.62	14.61	60.57	100	131	P	V
802.11a CH 44 5220MHz		10440	49.27	-18.93	68.2	57.91	39.88	12.36	60.88	100	0	P	H
		15660	49.65	-24.35	74	57.13	38.33	14.67	60.48	100	0	P	H
		10440	48.87	-19.33	68.2	57.51	39.88	12.36	60.88	100	0	P	V
		15660	49.26	-24.74	74	56.74	38.33	14.67	60.48	100	0	P	V
802.11a CH 48 5240MHz		10480	49.99	-18.21	68.2	58.61	39.97	12.38	60.97	100	0	P	H
		15720	53.26	-20.74	74	60.84	38.16	14.68	60.42	100	305	P	H
		15720	45.22	-8.78	54	52.8	38.16	14.68	60.42	100	305	A	H
		10480	48.06	-20.14	68.2	56.68	39.97	12.38	60.97	100	0	P	V
		15720	49.81	-24.19	74	57.39	38.16	14.68	60.42	100	0	P	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5146.38	62.22	-11.78	74	51.91	31.69	8.17	29.55	368	324	P	H
		5149.76	52.91	-1.09	54	42.6	31.69	8.17	29.55	368	324	A	H
	*	5180	113.21	-	-	102.83	31.71	8.22	29.55	368	324	P	H
	*	5180	107.44	-	-	97.06	31.71	8.22	29.55	368	324	A	H
		5141.44	59.68	-14.32	74	49.39	31.69	8.15	29.55	101	224	P	V
		5148.98	50.6	-3.4	54	40.29	31.69	8.17	29.55	101	224	A	V
	*	5180	111.73	-	-	101.35	31.71	8.22	29.55	101	224	P	V
	5180	105.15	-	-	94.77	31.71	8.22	29.55	101	224	A	V	
802.11n HT20 CH 44 5220MHz		5135.2	56.37	-17.63	74	46.09	31.68	8.15	29.55	273	328	P	H
		5148.2	47.59	-6.41	54	37.28	31.69	8.17	29.55	273	328	A	H
	*	5220	115.54	-	-	105.12	31.73	8.25	29.56	273	328	P	H
	*	5220	108.63	-	-	98.21	31.73	8.25	29.56	273	328	A	H
		5354.44	50.86	-23.14	74	40.33	31.81	8.29	29.57	273	328	P	H
		5351.92	43.28	-10.72	54	32.75	31.81	8.29	29.57	273	328	A	H
		5022.1	51.71	-22.29	74	41.61	31.62	8.01	29.53	100	223	P	V
		5147.94	44.32	-9.68	54	34.01	31.69	8.17	29.55	100	223	A	V
	*	5220	112.41	-	-	101.99	31.73	8.25	29.56	100	223	P	V
	*	5220	105.71	-	-	95.29	31.73	8.25	29.56	100	223	A	V
		5403.16	50.88	-23.12	74	40.31	31.84	8.31	29.58	100	223	P	V
	5364.8	42.03	-11.97	54	31.48	31.82	8.3	29.57	100	223	A	V	



802.11n HT20 CH 48 5240MHz		5148.98	55.12	-18.88	74	44.81	31.69	8.17	29.55	241	315	P	H
		5128.44	47.7	-6.3	54	37.42	31.68	8.15	29.55	241	315	A	H
	*	5240	116.47	-	-	106.04	31.74	8.25	29.56	241	315	P	H
	*	5240	109.67	-	-	99.24	31.74	8.25	29.56	241	315	A	H
		5368.72	53.77	-20.23	74	43.22	31.82	8.3	29.57	241	315	P	H
		5352.2	44.76	-9.24	54	34.23	31.81	8.29	29.57	241	315	A	H
		5139.88	52.66	-21.34	74	42.37	31.69	8.15	29.55	100	221	P	V
		5128.7	44.05	-9.95	54	33.77	31.68	8.15	29.55	100	221	A	V
	*	5240	112.15	-	-	101.72	31.74	8.25	29.56	100	221	P	V
	*	5240	105.78	-	-	95.35	31.74	8.25	29.56	100	221	A	V
		5451.32	51.27	-22.73	74	40.53	31.87	8.46	29.59	100	221	P	V
		5352.2	42.62	-11.38	54	32.09	31.81	8.29	29.57	100	221	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path 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	46.93	-21.27	68.2	55.59	39.76	12.34	60.76	100	0	P	H
		15540	55.47	-18.53	74	62.81	38.62	14.61	60.57	100	305	P	H
		15540	47.4	-6.6	54	54.74	38.62	14.61	60.57	100	305	A	H
		10360	45.98	-22.22	68.2	54.64	39.76	12.34	60.76	100	0	P	V
		15540	53.8	-20.2	74	61.14	38.62	14.61	60.57	100	131	P	V
		15540	45.51	-8.49	54	52.85	38.62	14.61	60.57	100	131	A	V
802.11n HT20 CH 44 5220MHz		10440	47.55	-20.65	68.2	56.19	39.88	12.36	60.88	100	0	P	H
		15660	49.18	-24.82	74	56.66	38.33	14.67	60.48	100	0	P	H
		10440	46.41	-21.79	68.2	55.05	39.88	12.36	60.88	100	0	P	V
		15660	48.07	-25.93	74	55.55	38.33	14.67	60.48	100	0	P	V
802.11n HT20 CH 48 5240MHz		10480	48.31	-19.89	68.2	56.93	39.97	12.38	60.97	100	0	P	H
		15720	49.42	-24.58	74	57	38.16	14.68	60.42	100	0	P	H
		10480	47.64	-20.56	68.2	56.26	39.97	12.38	60.97	100	0	P	V
		15720	48.72	-25.28	74	56.3	38.16	14.68	60.42	100	0	P	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.2	63.82	-10.18	74	53.51	31.69	8.17	29.55	245	318	P	H
		5149.76	51.42	-2.58	54	41.11	31.69	8.17	29.55	245	318	A	H
	*	5190	105.5	-	-	95.12	31.71	8.22	29.55	245	318	P	H
	*	5190	98.82	-	-	88.44	31.71	8.22	29.55	245	318	A	H
		5350.8	51.04	-22.96	74	40.51	31.81	8.29	29.57	245	318	P	H
		5351.92	42.72	-11.28	54	32.19	31.81	8.29	29.57	245	318	A	H
		5148.46	60.81	-13.19	74	50.5	31.69	8.17	29.55	100	225	P	V
		5148.2	49.07	-4.93	54	38.76	31.69	8.17	29.55	100	225	A	V
	*	5190	103.59	-	-	93.21	31.71	8.22	29.55	100	225	P	V
	*	5190	97.22	-	-	86.84	31.71	8.22	29.55	100	225	A	V
		5398.12	51.51	-22.49	74	40.94	31.84	8.31	29.58	100	225	P	V
		5446	42.16	-11.84	54	31.46	31.87	8.41	29.58	100	225	A	V
802.11n HT40 CH 46 5230MHz		5149.5	59.3	-14.7	74	48.99	31.69	8.17	29.55	286	331	P	H
		5148.72	50.14	-3.86	54	39.83	31.69	8.17	29.55	286	331	A	H
	*	5230	111.44	-	-	101.01	31.74	8.25	29.56	286	331	P	H
	*	5230	104.95	-	-	94.52	31.74	8.25	29.56	286	331	A	H
		5372.08	52.46	-21.54	74	41.91	31.82	8.3	29.57	286	331	P	H
		5352.76	44.11	-9.89	54	33.58	31.81	8.29	29.57	286	331	A	H
		5149.76	54.79	-19.21	74	44.48	31.69	8.17	29.55	100	225	P	V
		5149.76	46.93	-7.07	54	36.62	31.69	8.17	29.55	100	225	A	V
	*	5230	108.84	-	-	98.41	31.74	8.25	29.56	100	225	P	V
	*	5230	102.32	-	-	91.89	31.74	8.25	29.56	100	225	A	V
	5362.56	51.72	-22.28	74	41.17	31.82	8.3	29.57	100	225	P	V	
	5350.52	43.05	-10.95	54	32.52	31.81	8.29	29.57	100	225	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38		10380	45.72	-22.48	68.2	54.38	39.79	12.34	60.79	100	0	P	H
		15570	43.69	-30.31	74	51.08	38.53	14.62	60.54	100	0	P	H
5190MHz		10380	45.21	-22.99	68.2	53.87	39.79	12.34	60.79	100	0	P	V
		15570	44.38	-29.62	74	51.77	38.53	14.62	60.54	100	0	P	V
802.11n HT40 CH 46		10460	46.52	-21.68	68.2	55.15	39.91	12.37	60.91	100	0	P	H
		15690	46.72	-27.28	74	54.26	38.24	14.67	60.45	100	0	P	H
5230MHz		10460	47.02	-21.18	68.2	55.65	39.91	12.37	60.91	100	0	P	V
		15690	45.66	-28.34	74	53.2	38.24	14.67	60.45	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5148.2	59.35	-14.65	74	49.04	31.69	8.17	29.55	278	330	P	H
		5148.98	53.28	-0.72	54	42.97	31.69	8.17	29.55	278	330	A	H
	*	5210	99.78	-	-	89.37	31.73	8.24	29.56	278	330	P	H
	*	5210	93.49	-	-	83.08	31.73	8.24	29.56	278	330	A	H
		5413.52	50.67	-23.33	74	40.04	31.85	8.36	29.58	278	330	P	H
		5371.24	43.84	-10.16	54	33.29	31.82	8.3	29.57	278	330	A	H
		5149.24	54.59	-19.41	74	44.28	31.69	8.17	29.55	100	220	P	V
		5149.5	48.82	-5.18	54	38.51	31.69	8.17	29.55	100	220	A	V
	*	5210	97.76	-	-	87.35	31.73	8.24	29.56	100	220	P	V
	*	5210	91.3	-	-	80.89	31.73	8.24	29.56	100	220	A	V
		5404.56	51.45	-22.55	74	40.88	31.84	8.31	29.58	100	220	P	V
	5454.96	43.72	-10.28	54	32.98	31.87	8.46	29.59	100	220	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	46.32	-21.88	68.2	54.96	39.85	12.36	60.85	100	0	P	H
		15630	43.18	-30.82	74	50.65	38.37	14.65	60.49	100	0	P	H
		10420	46.02	-22.18	68.2	54.66	39.85	12.36	60.85	100	0	P	V
		15630	44.14	-29.86	74	51.61	38.37	14.65	60.49	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		31.08	24.25	-15.75	40	32.65	23.96	-0.02	32.34	100	0	P	H
		150.15	23.62	-19.88	43.5	38.69	17.16	0.05	32.28	-	-	P	H
		282.72	23.65	-22.35	46	36.84	18.89	0.07	32.15	-	-	P	H
		763.4	27.16	-18.84	46	30.97	28.14	0.11	32.06	-	-	P	H
		891.5	29.97	-16.03	46	32.41	29	0.11	31.55	-	-	P	H
		948.2	29.84	-16.16	46	30.22	30.55	0.14	31.07	-	-	P	H
		31.08	31.61	-8.39	40	40.01	23.96	-0.02	32.34	100	0	P	V
		40.26	23.2	-16.8	40	36.38	19.14	0.01	32.33	-	-	P	V
		149.88	22.23	-21.27	43.5	37.3	17.16	0.05	32.28	-	-	P	V
		563.2	27.65	-18.35	46	33.87	25.89	0.1	32.21	-	-	P	V
		885.9	33.59	-12.41	46	36.07	28.99	0.11	31.58	-	-	P	V
		938.4	32.97	-13.03	46	33.99	30.01	0.13	31.16	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<TXBF Mode>

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		5148.72	62.3	-11.7	74	51.99	31.69	8.17	29.55	260	314	P	H
		5148.98	52.39	-1.61	54	42.08	31.69	8.17	29.55	260	314	A	H
	*	5180	115.75	-	-	105.37	31.71	8.22	29.55	260	314	P	H
	*	5180	108.78	-	-	98.4	31.71	8.22	29.55	260	314	A	H
		5148.46	60.52	-13.48	74	50.21	31.69	8.17	29.55	231	299	P	V
		5150	50.87	-3.13	54	40.56	31.69	8.17	29.55	231	299	A	V
	*	5180	111.17	-	-	100.79	31.71	8.22	29.55	231	299	P	V
	*	5180	104.53	-	-	94.15	31.71	8.22	29.55	231	299	A	V
802.11ac VHT20 CH 44 5220MHz		5116.22	57.36	-16.64	74	47.1	31.67	8.13	29.54	263	316	P	H
		5149.24	48.99	-5.01	54	38.68	31.69	8.17	29.55	263	316	A	H
	*	5220	118.56	-	-	108.14	31.73	8.25	29.56	263	316	P	H
	*	5220	111.34	-	-	100.92	31.73	8.25	29.56	263	316	A	H
		5371.24	53.09	-20.91	74	42.54	31.82	8.3	29.57	263	316	P	H
		5353.04	44.72	-9.28	54	34.19	31.81	8.29	29.57	263	316	A	H
		5141.18	52.81	-21.19	74	42.52	31.69	8.15	29.55	314	299	P	V
		5149.5	44.89	-9.11	54	34.58	31.69	8.17	29.55	314	299	A	V
	*	5220	114.03	-	-	103.61	31.73	8.25	29.56	314	299	P	V
	*	5220	107.25	-	-	96.83	31.73	8.25	29.56	314	299	A	V
	5401.48	51.06	-22.94	74	40.49	31.84	8.31	29.58	314	299	P	V	
	5351.92	42.06	-11.94	54	31.53	31.81	8.29	29.57	314	299	A	V	



802.11ac VHT20 CH 48 5240MHz		5147.68	56.17	-17.83	74	45.86	31.69	8.17	29.55	271	316	P	H
		5128.7	48.36	-5.64	54	38.08	31.68	8.15	29.55	271	316	A	H
	*	5240	118.21	-	-	107.78	31.74	8.25	29.56	271	316	P	H
	*	5240	111.06	-	-	100.63	31.74	8.25	29.56	271	316	A	H
		5353.04	53.51	-20.49	74	42.98	31.81	8.29	29.57	271	316	P	H
		5351.64	45.16	-8.84	54	34.63	31.81	8.29	29.57	271	316	A	H
		5115.44	53.19	-20.81	74	42.93	31.67	8.13	29.54	296	299	P	V
		5127.66	44.35	-9.65	54	34.07	31.68	8.15	29.55	296	299	A	V
	*	5240	114.2	-	-	103.77	31.74	8.25	29.56	296	299	P	V
	*	5240	107.51	-	-	97.08	31.74	8.25	29.56	296	299	A	V
		5352.48	50.99	-23.01	74	40.46	31.81	8.29	29.57	296	299	P	V
		5351.36	42.52	-11.48	54	31.99	31.81	8.29	29.57	296	299	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		10360	53.6	-14.6	68.2	62.26	39.76	12.34	60.76	100	0	P	H
		15540	48.96	-25.04	74	56.3	38.62	14.61	60.57	100	0	P	H
CH 36 5180MHz		10360	52.29	-15.91	68.2	60.95	39.76	12.34	60.76	100	0	P	V
		15540	49.85	-24.15	74	57.19	38.62	14.61	60.57	100	0	P	V
802.11ac VHT20 CH 44 5220MHz		10440	57.37	-10.83	68.2	66.01	39.88	12.36	60.88	100	0	P	H
		15660	55.83	-18.17	74	63.31	38.33	14.67	60.48	100	226	P	H
		15660	45.14	-8.86	54	52.62	38.33	14.67	60.48	100	226	A	H
		10440	56.97	-11.23	68.2	65.61	39.88	12.36	60.88	100	0	P	V
5220MHz		15660	53.71	-20.29	74	61.19	38.33	14.67	60.48	100	53	P	V
		15660	43.02	-10.98	54	50.5	38.33	14.67	60.48	100	53	A	V
		10480	57.3	-10.9	68.2	65.92	39.97	12.38	60.97	100	0	P	H
802.11ac VHT20 CH 48 5240MHz		15720	54.41	-19.59	74	61.99	38.16	14.68	60.42	100	226	P	H
		15720	44.31	-9.69	54	51.89	38.16	14.68	60.42	100	226	A	H
		10480	56.28	-11.92	68.2	64.9	39.97	12.38	60.97	100	0	P	V
		15720	53.32	-20.68	74	60.9	38.16	14.68	60.42	100	54	P	V
		15720	42.81	-11.19	54	50.39	38.16	14.68	60.42	100	54	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5149.76	62.48	-11.52	74	52.17	31.69	8.17	29.55	265	308	P	H
		5150	53.2	-0.8	54	42.89	31.69	8.17	29.55	265	308	A	H
	*	5190	107.7	-	-	97.32	31.71	8.22	29.55	265	308	P	H
	*	5190	100.88	-	-	90.5	31.71	8.22	29.55	265	308	A	H
		5354.44	50.51	-23.49	74	39.98	31.81	8.29	29.57	265	308	P	H
		5444.04	42.38	-11.62	54	31.69	31.86	8.41	29.58	265	308	A	H
		5147.42	53.39	-20.61	74	43.08	31.69	8.17	29.55	302	295	P	V
		5150	49.05	-4.95	54	38.74	31.69	8.17	29.55	302	295	A	V
	*	5190	103.02	-	-	92.64	31.71	8.22	29.55	302	295	P	V
	*	5190	96.88	-	-	86.5	31.71	8.22	29.55	302	295	A	V
		5452.16	50.66	-23.34	74	39.92	31.87	8.46	29.59	302	295	P	V
		5453.84	42.27	-11.73	54	31.53	31.87	8.46	29.59	302	295	A	V
802.11ac VHT40 CH 46 5230MHz		5144.04	59.94	-14.06	74	49.63	31.69	8.17	29.55	266	307	P	H
		5148.46	52.76	-1.24	54	42.45	31.69	8.17	29.55	266	307	A	H
	*	5230	114.86	-	-	104.43	31.74	8.25	29.56	266	307	P	H
	*	5230	108.09	-	-	97.66	31.74	8.25	29.56	266	307	A	H
		5416.88	53.22	-20.78	74	42.59	31.85	8.36	29.58	266	307	P	H
		5351.08	45.32	-8.68	54	34.79	31.81	8.29	29.57	266	307	A	H
		5149.24	54.75	-19.25	74	44.44	31.69	8.17	29.55	294	291	P	V
		5148.72	46.96	-7.04	54	36.65	31.69	8.17	29.55	294	291	A	V
	*	5230	110.56	-	-	100.13	31.74	8.25	29.56	294	291	P	V
	*	5230	104.21	-	-	93.78	31.74	8.25	29.56	294	291	A	V
	5351.64	51.33	-22.67	74	40.8	31.81	8.29	29.57	294	291	P	V	
	5354.16	43.65	-10.35	54	33.12	31.81	8.29	29.57	294	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 802.11ac VHT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ac VHT40 CH 38 (5190MHz) and 802.11ac VHT40 CH 46 (5230MHz).

Remark

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



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5135.72	59.46	-14.54	74	49.18	31.68	8.15	29.55	267	307	P	H
		5149.5	53.46	-0.54	54	43.15	31.69	8.17	29.55	267	307	A	H
	*	5210	102.15	-	-	91.74	31.73	8.24	29.56	267	307	P	H
	*	5210	95.71	-	-	85.3	31.73	8.24	29.56	267	307	A	H
		5454.96	49.79	-24.21	74	39.05	31.87	8.46	29.59	267	307	P	H
		5455.8	43.64	-10.36	54	32.9	31.87	8.46	29.59	267	307	A	H
		5147.42	53.67	-20.33	74	43.36	31.69	8.17	29.55	296	293	P	V
		5149.76	47.63	-6.37	54	37.32	31.69	8.17	29.55	296	293	A	V
	*	5210	97.56	-	-	87.15	31.73	8.24	29.56	296	293	P	V
	*	5210	91.61	-	-	81.2	31.73	8.24	29.56	296	293	A	V
	5451.6	50.29	-23.71	74	39.55	31.87	8.46	29.59	296	293	P	V	
	5368.72	43.62	-10.38	54	33.07	31.82	8.3	29.57	296	293	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	46.77	-21.43	68.2	55.41	39.85	12.36	60.85	100	0	P	H
		15630	43.95	-30.05	74	51.42	38.37	14.65	60.49	100	0	P	H
		10420	46.27	-21.93	68.2	54.91	39.85	12.36	60.85	100	0	P	V
		15630	44.09	-29.91	74	51.56	38.37	14.65	60.49	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WiFi 802.11av VHT80 (LF @ 3m)

WiFi	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		149.88	26.76	-16.74	43.5	40.33	17.16	1.55	32.28	-	-	P	H
		207.93	27.05	-16.45	43.5	42.36	15.15	1.8	32.26	-	-	P	H
		282.72	29.95	-16.05	46	41.16	18.89	2.05	32.15	-	-	P	H
		349.7	31.81	-14.19	46	41.18	20.49	2.28	32.14	-	-	P	H
		563.2	31.85	-14.15	46	35.29	25.89	2.88	32.21	-	-	P	H
		716.5	35.38	-10.62	46	37.37	26.98	3.17	32.14	100	0	P	H
		31.08	31.6	-8.4	40	39.19	23.96	0.79	32.34	100	0	P	V
		34.59	31.25	-8.75	40	40.54	22.26	0.79	32.34	-	-	P	V
		76.71	24.45	-15.55	40	42.18	13.29	1.28	32.3	-	-	P	V
		349.7	27.16	-18.84	46	36.53	20.49	2.28	32.14	-	-	P	V
		563.2	29.18	-16.82	46	32.62	25.89	2.88	32.21	-	-	P	V
		938.4	36.58	-9.42	46	34.03	30.01	3.7	31.16	-	-	P	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Alex Jheng, Fu Chen, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	50~52%

Note symbol

-L	Low channel location
-R	High channel location



<CDD Mode>

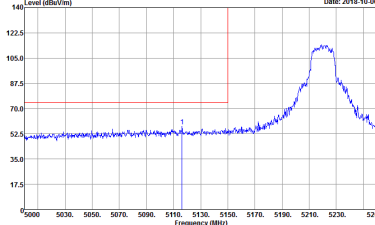
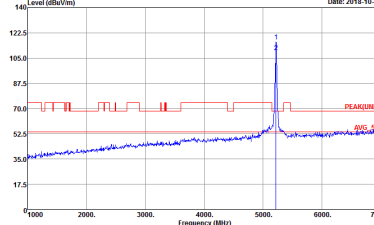
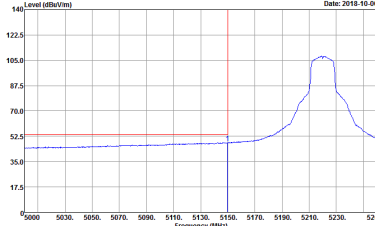
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-14Y Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-14Y Condition : PEAK(LINE) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-14Y Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

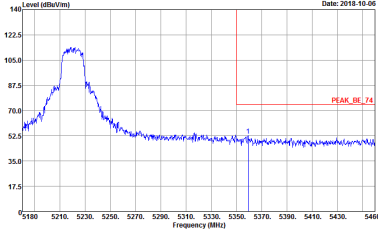
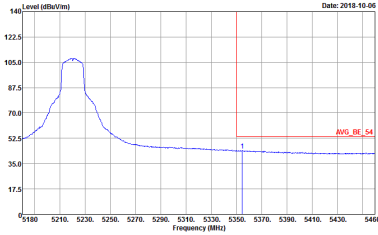


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

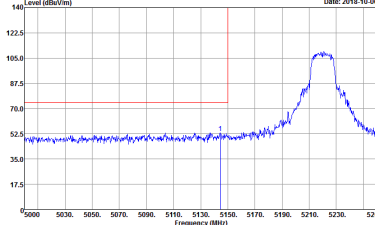
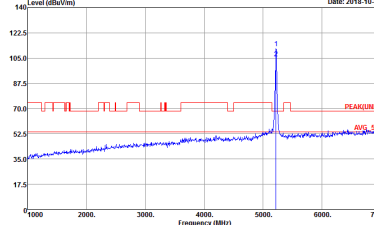
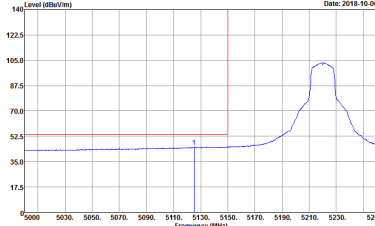


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

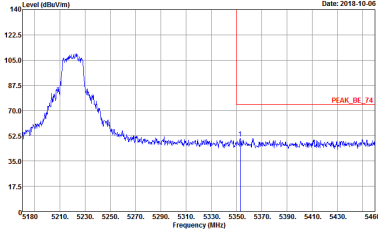
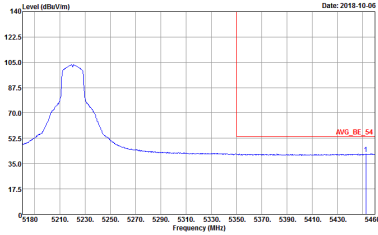


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

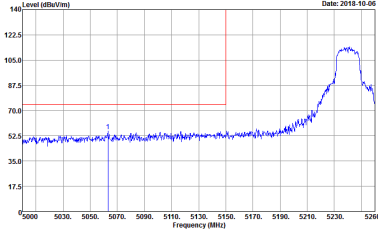
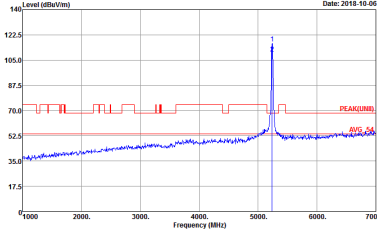
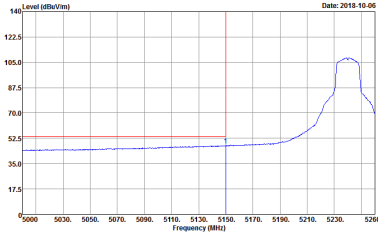


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

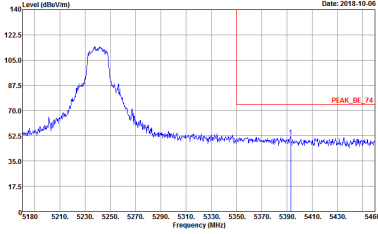
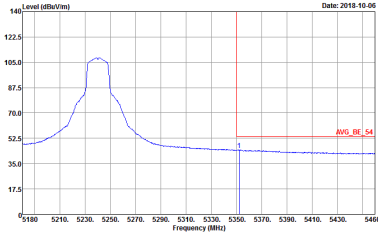


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

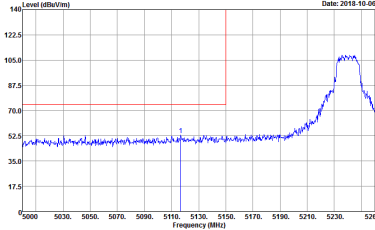
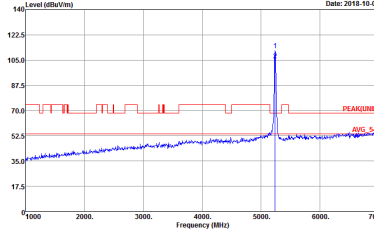
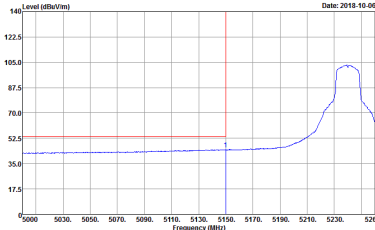


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

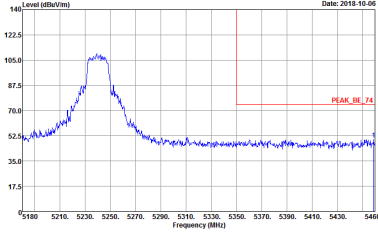
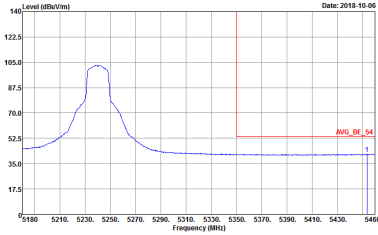


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LUNII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



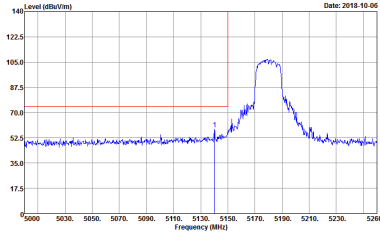
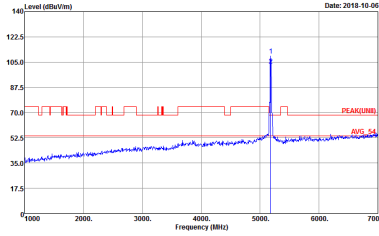
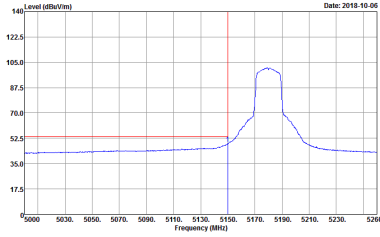
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



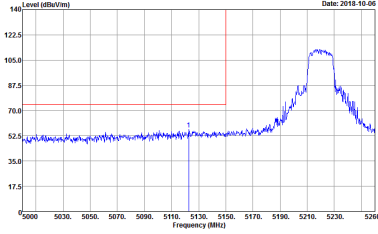
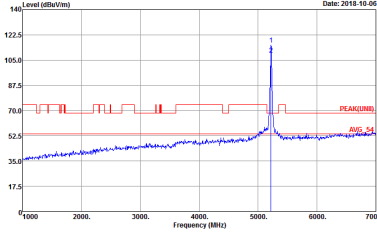
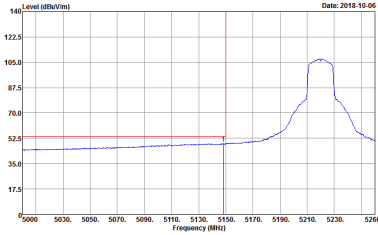
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

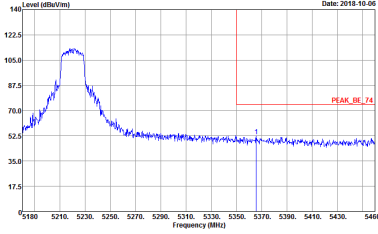
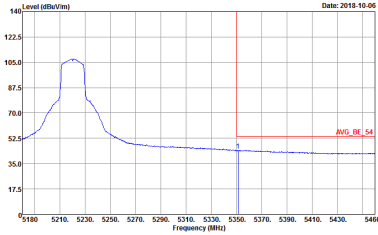


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

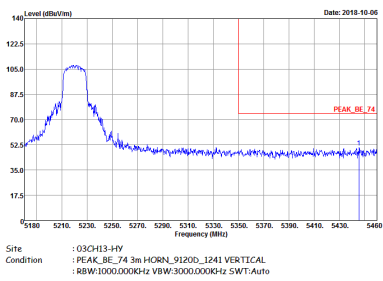
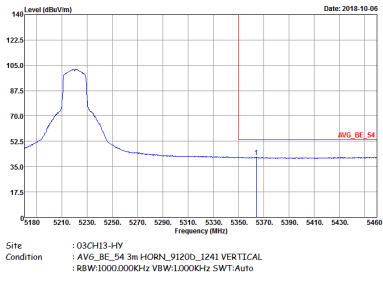


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

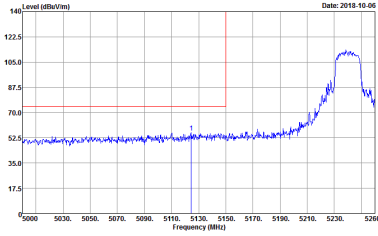
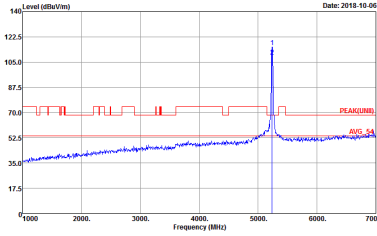
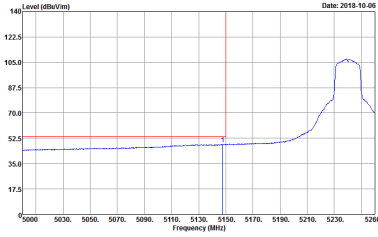


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

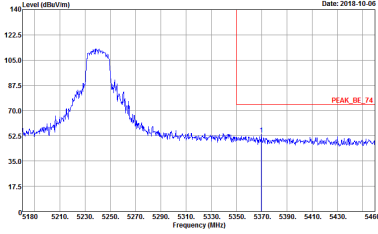
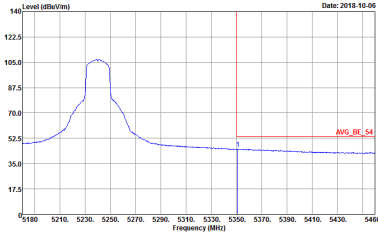


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

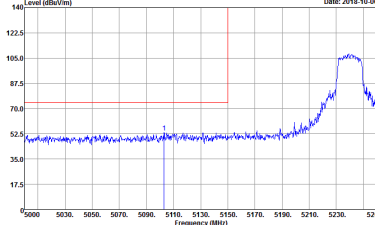
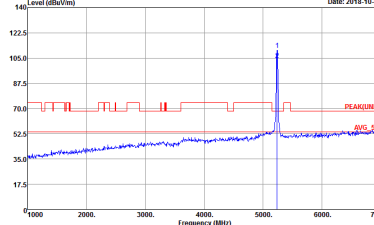
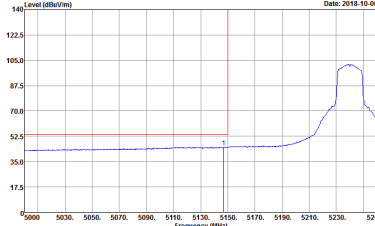


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

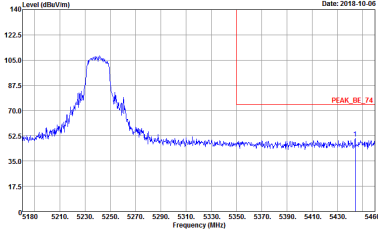
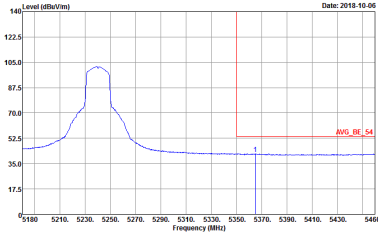


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



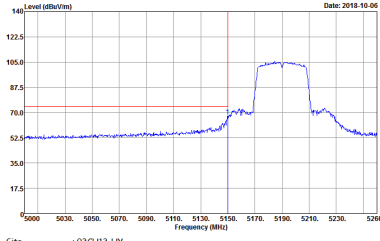
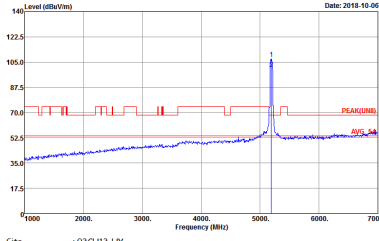
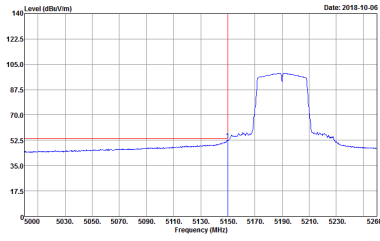
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</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 : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



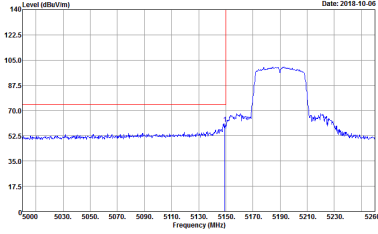
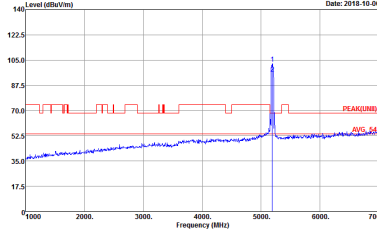
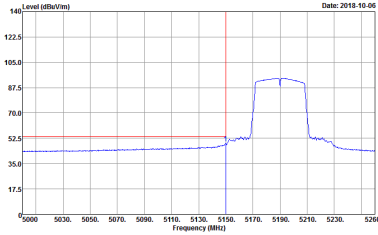
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

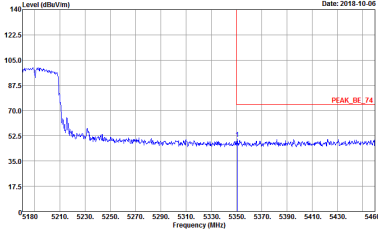
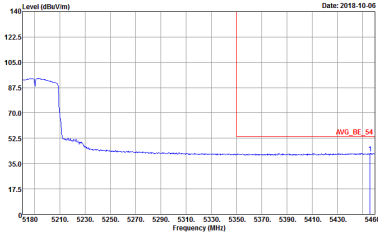


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241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

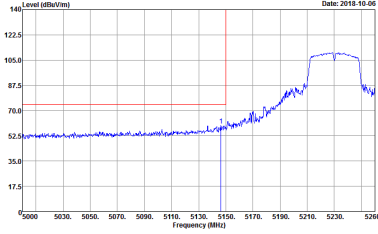
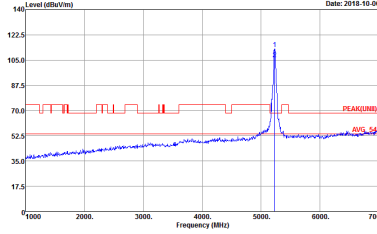
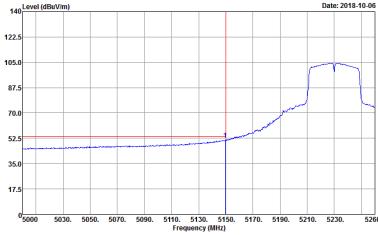


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LRBL) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

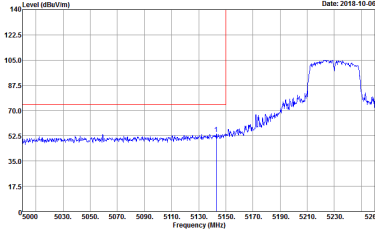
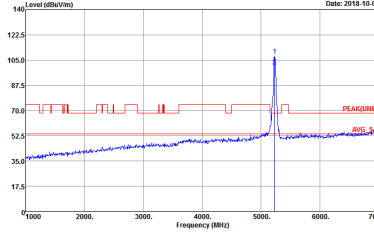
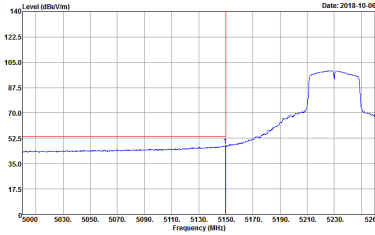


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



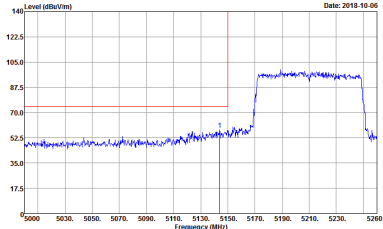
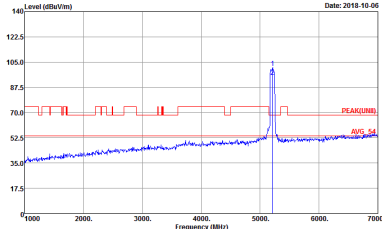
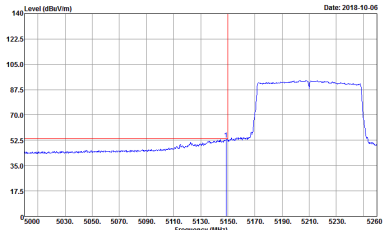
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</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 : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank



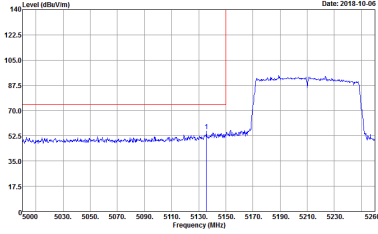
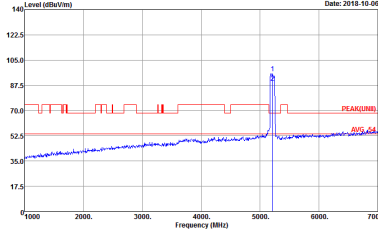
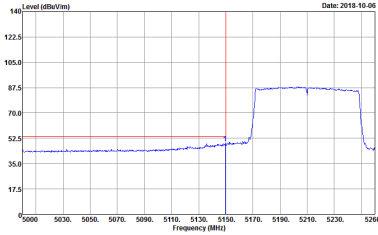
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-10-06</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2018-10-06</p> <p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2018-10-06</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank

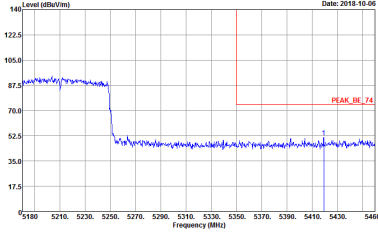
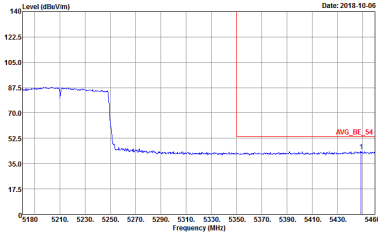


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</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	<p>Site : 05CH13-HY Condition : PEAK(LINE1) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 05CH13-HY Condition : PEAK(LINE1) 3m HORN_9120D_1241 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 VERTICAL Detector : Peak</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
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



**Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : PEAK(LINEI) 3m HORN_91200_1241 VERTICAL Detector : Peak</p>



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

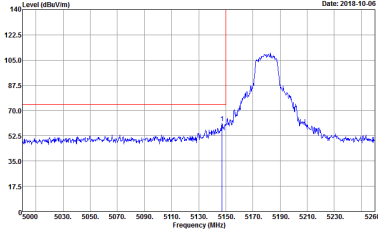
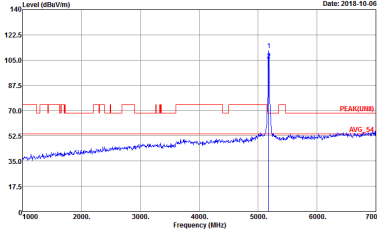
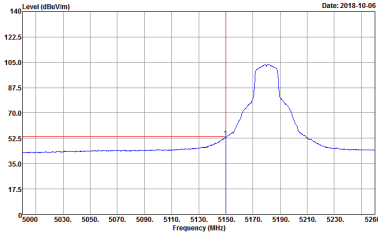
WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH13-HY Condition : QP 3m BIL OG_40103 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH13-HY Condition : QP 3m BIL OG_40103 VERTICAL Detector : Peak</p>



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 : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(LINB) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

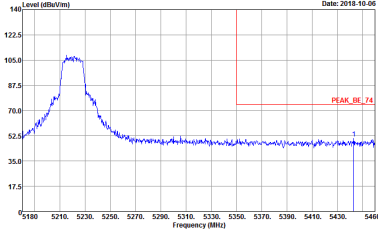
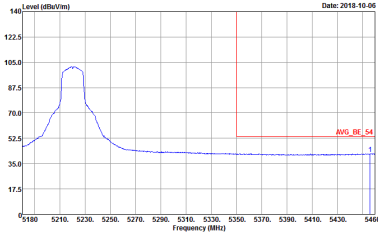


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

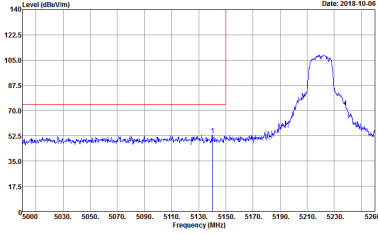
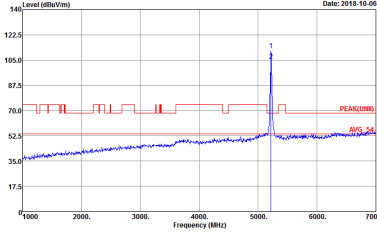
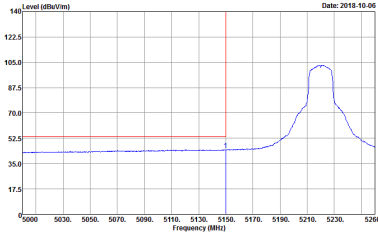


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

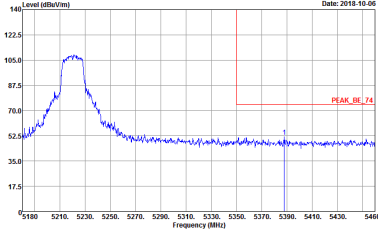
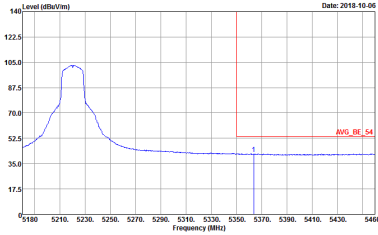


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL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

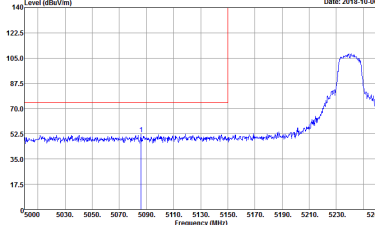
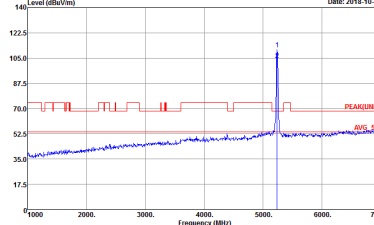
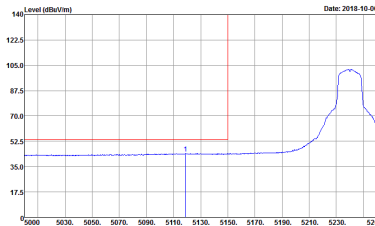


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

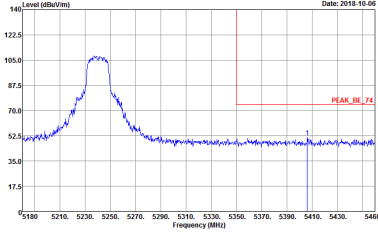
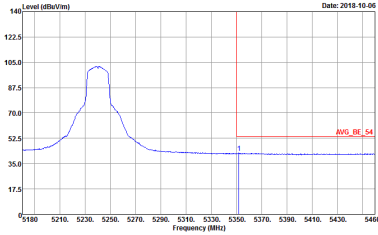


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

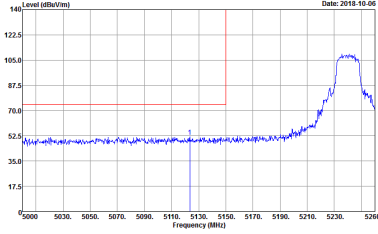
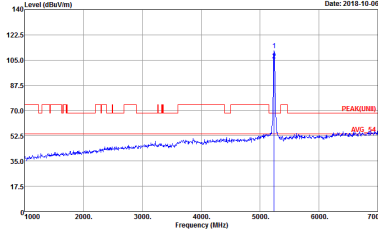
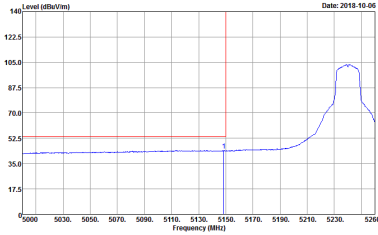


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

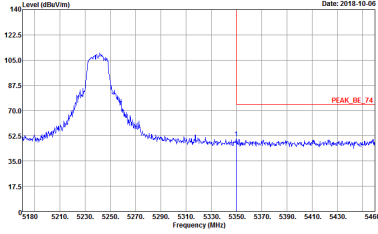
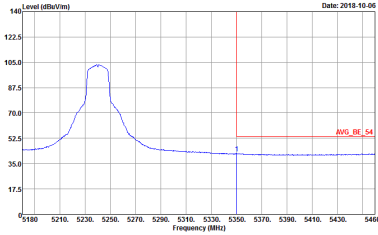


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</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 : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



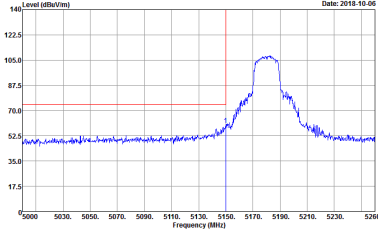
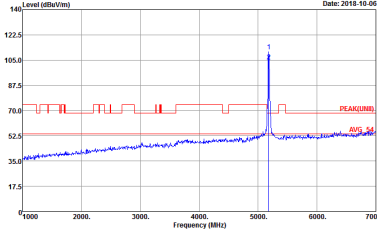
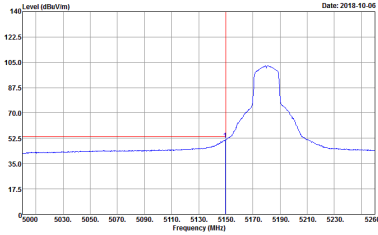
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



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

Table with 2 columns (WIFI, ANT) and 2 rows (Peak, Avg.). The table contains spectral analysis plots for 'Horizontal' and 'Fundamental' views, and 'Avg.' and 'Left blank' views. Each plot shows Level (dBu/m) vs Frequency (MHz) with specific site and condition details.

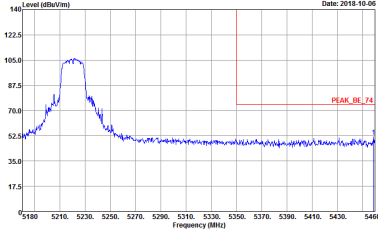
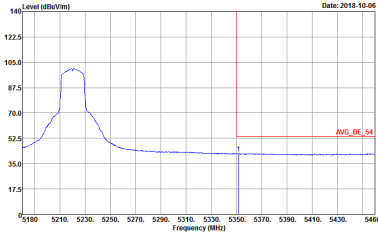


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

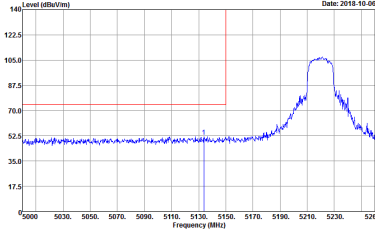
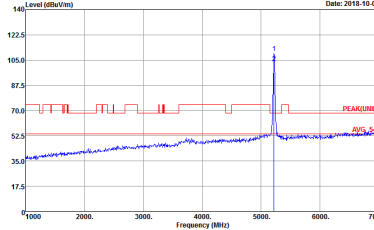
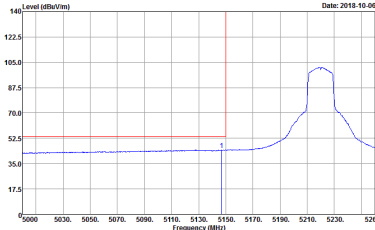


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

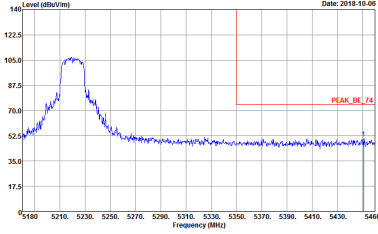
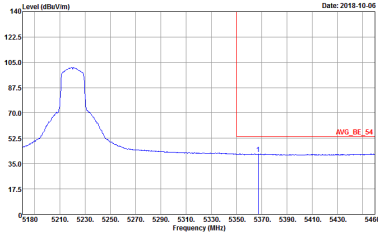


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

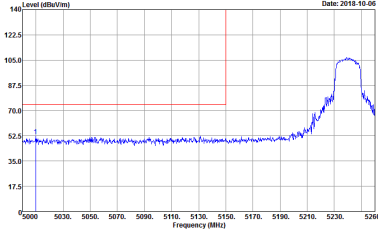
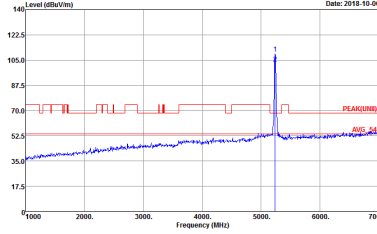
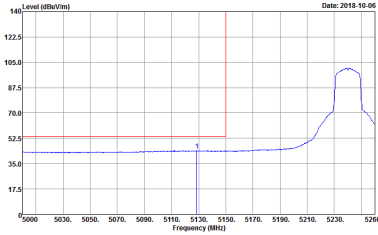


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

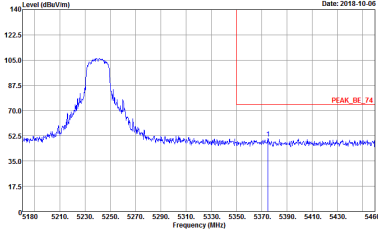
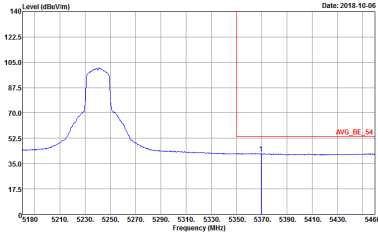


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

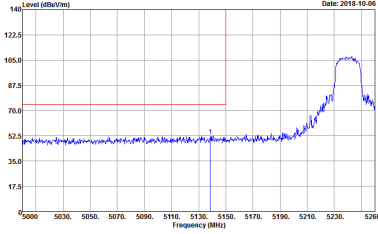
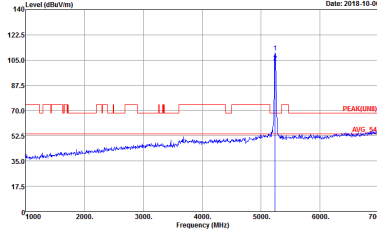
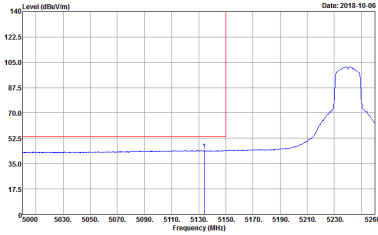


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank

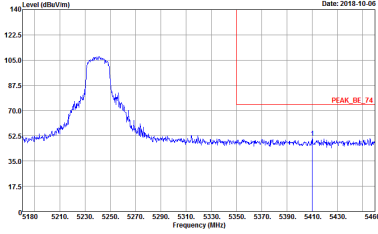
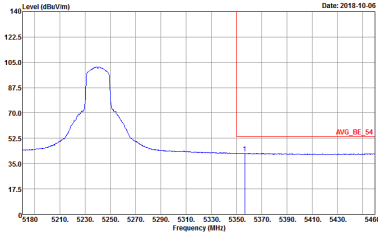


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



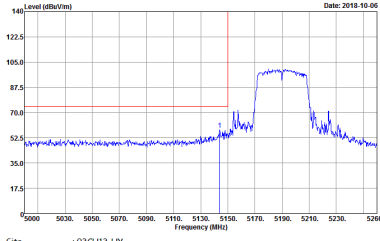
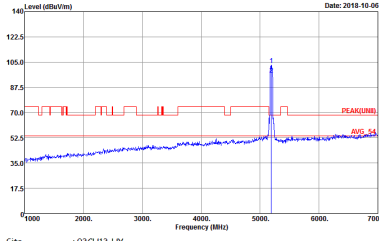
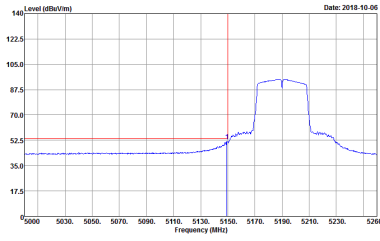
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



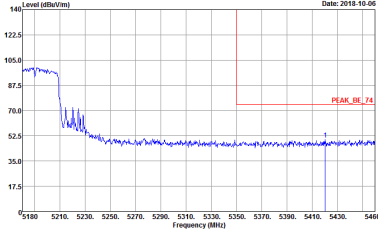
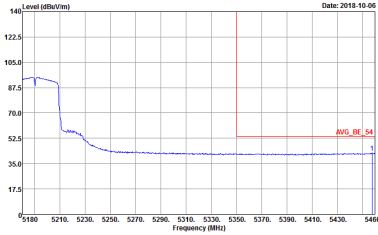
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



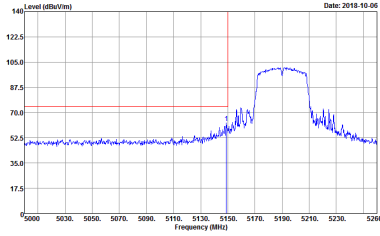
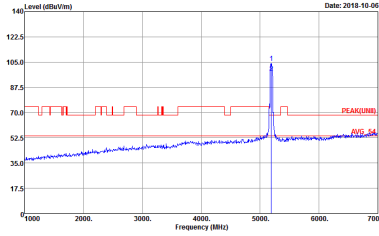
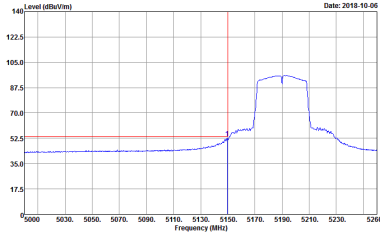
**Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

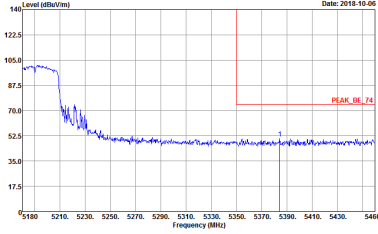
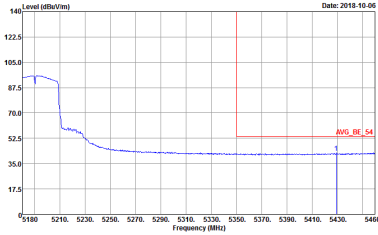


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241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

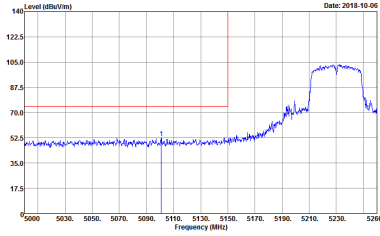
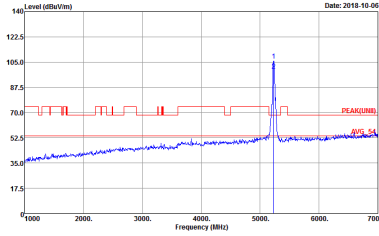
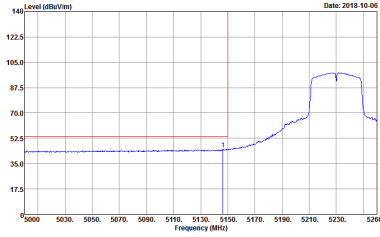


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

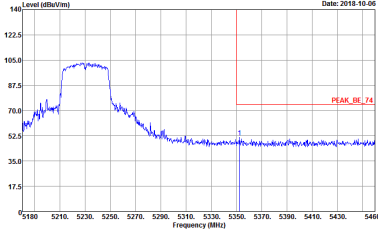
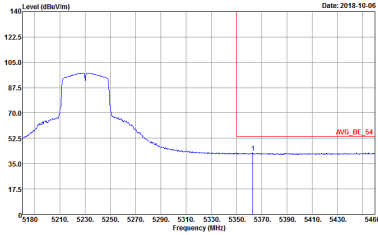


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

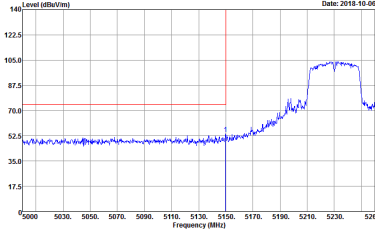
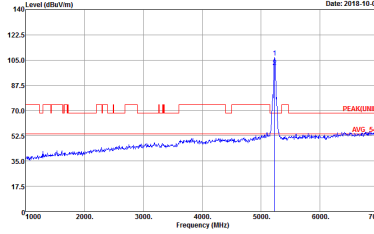
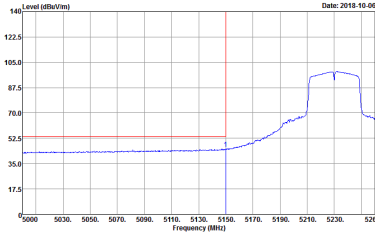


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

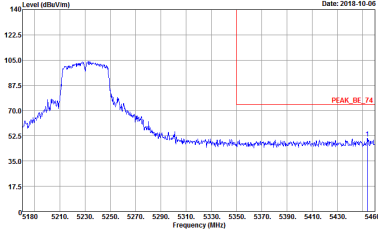
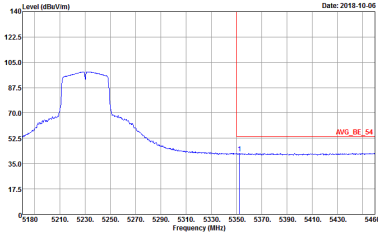


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



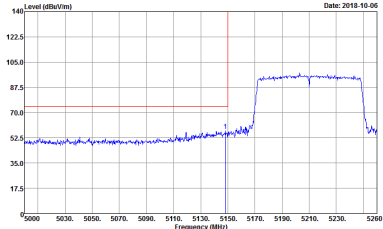
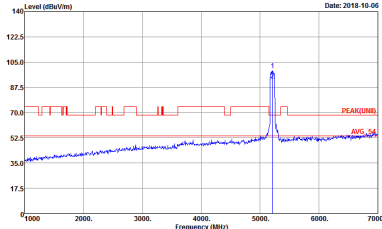
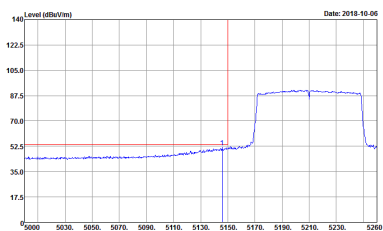
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



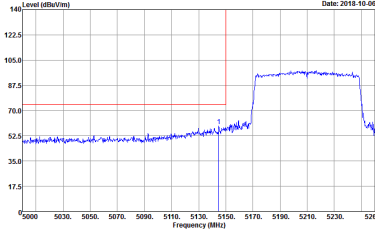
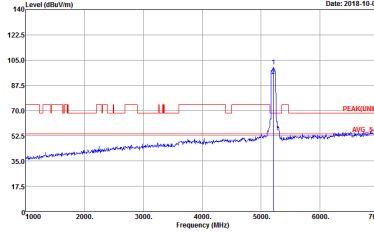
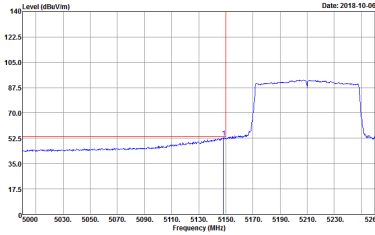
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank

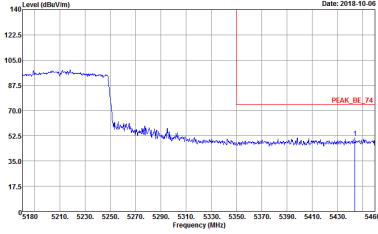
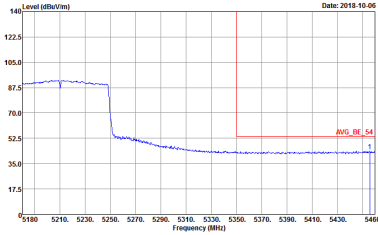


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto</p>	Left blank