FCC RADIO TEST REPORT

FCC ID	**:**	**2AG7G-C1A**
Equipment	**:**	**Plume PowerPod**
Brand Name	**:**	**Plume Design Inc**
Model Name	**:**	**C1A**
Applicant	**:**	**Plume Design Inc** **290 S California Ave, Suite 200, Palo Alto, CA 94306, USA**
Manufacturer	**:**	**Plume Design Inc** **290 S California Ave, Suite 200, Palo Alto, CA 94306, USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Jan. 28, 2019 and testing was started from Jan. 30, 2019 and completed on Apr. 09, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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.

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR912813C	01	Initial issue of report	Apr. 18, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
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	Under limit 1.11 dB at 5150.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 12.51 dB at 0.641 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, and Wi-Fi 5GHz 802.11a/n/ac

Product specification subjective to this standard	
Antenna Type	WLAN 2.4GHz: <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna WLAN 5GHz: <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna <Ant. 3>: PIFA Antenna <Ant. 4>: PIFA Antenna Bluetooth: PIFA Antenna

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY

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

FCC Designation No. TW1190 and TW0007

1.4 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:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane for CDD Mode; Z plane for Ant. 2 and Ant. 3 with TXBF Mode; Y plane for Ant. 4 with TXBF Mode) were 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.

<CDD Mode>

Single Mode

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

MIMO Mode

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

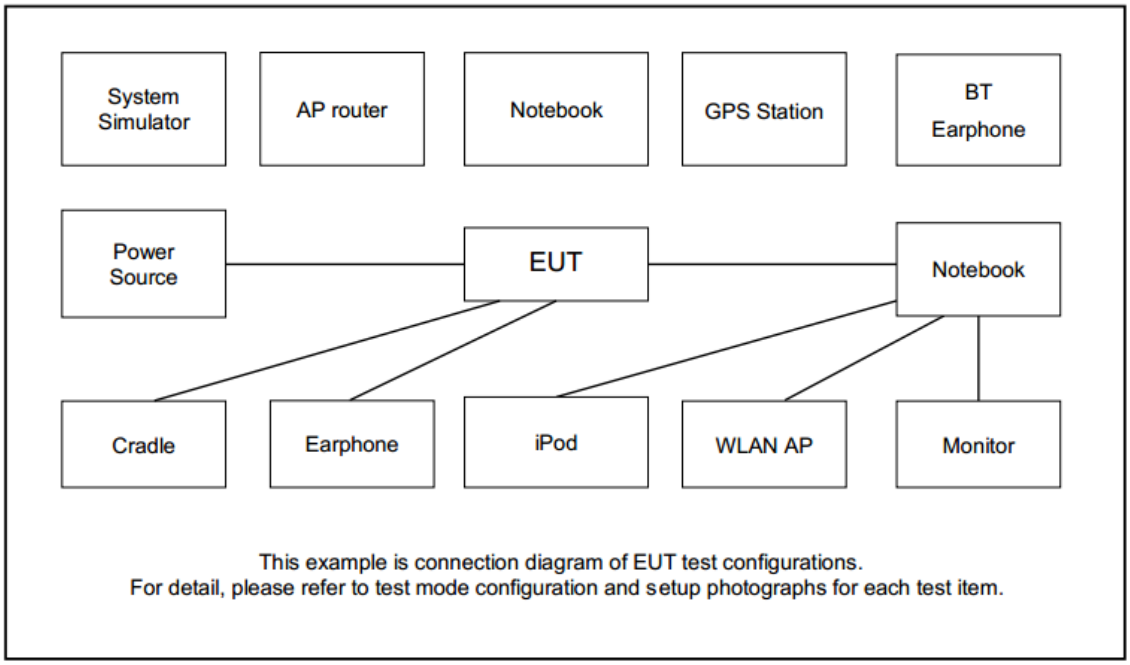
<TXBF Mode>

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 Idle + LAN 1 Link

Ch. #		Band I：5150-5250 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	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



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
2.	Mobile Phone	Samsung	SM-A703F/DS	N/A	N/A	Unshielded,1.8m
3.	LCD Monitor	Asus	S2316-HC	FCC DoC	Shielded, 1.6m	Unshielded, 1.8m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “accesssMTool.exe” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “tera term” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

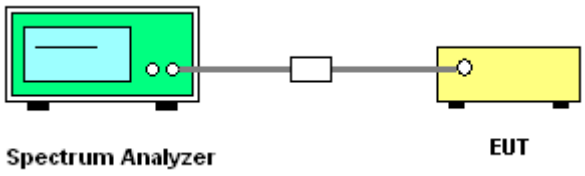
3.1.2 Measuring Instruments

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup

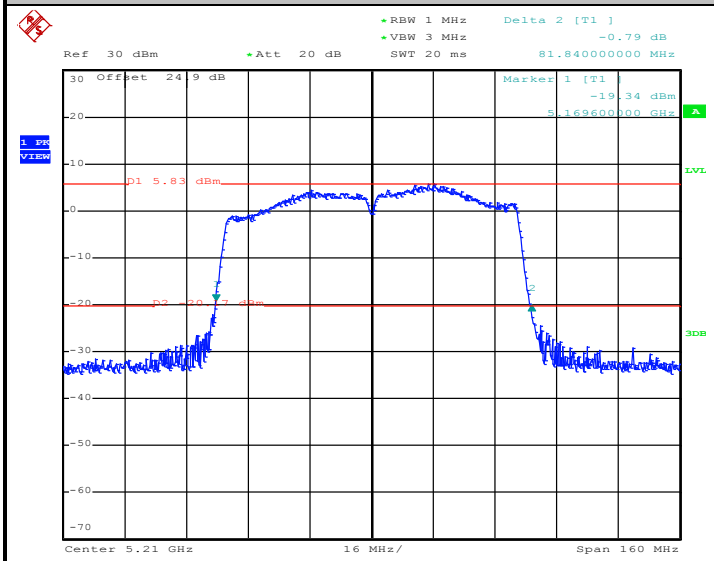


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

<CDD Mode>

Maximum 26dB Bandwidth



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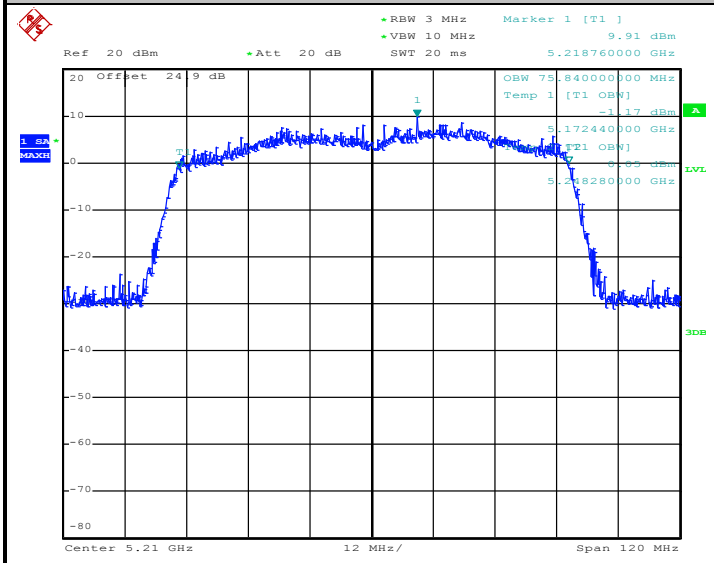
Maximum 99% Occupied Bandwidth

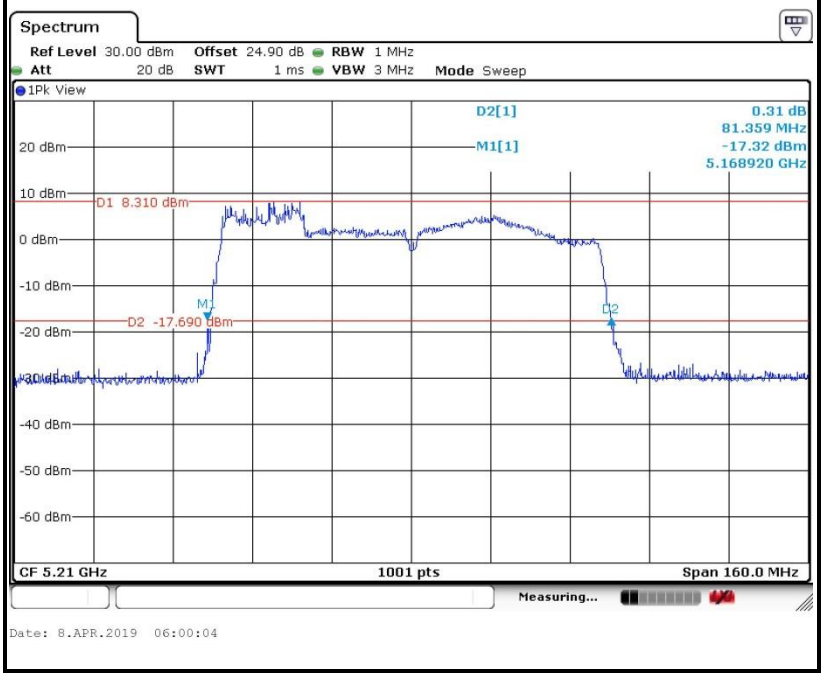


Date: 27.MAR.2019 14:23:46

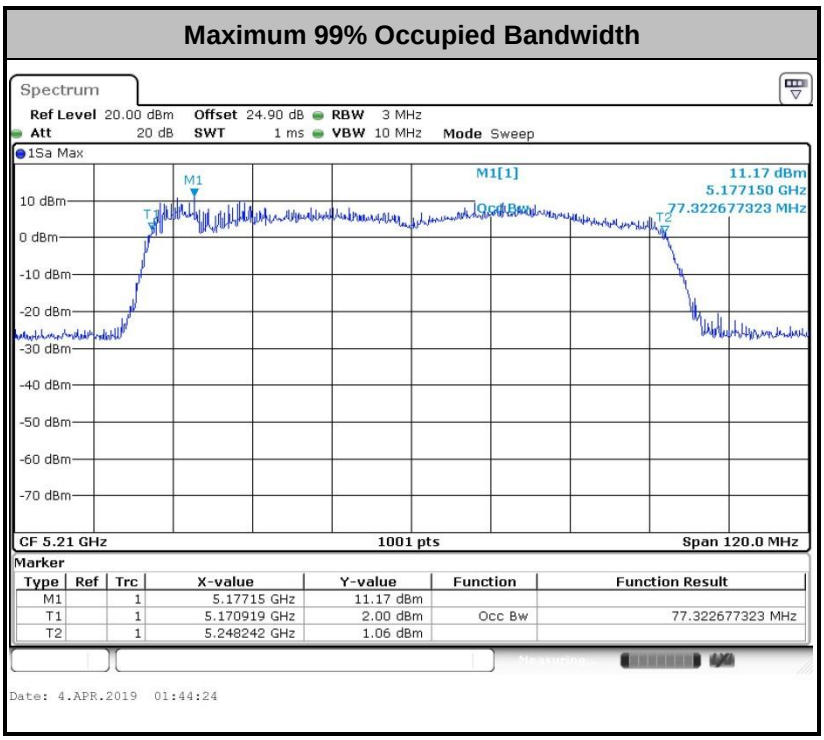
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Mode>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For 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.

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

3.2.2 Measuring Instruments

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.

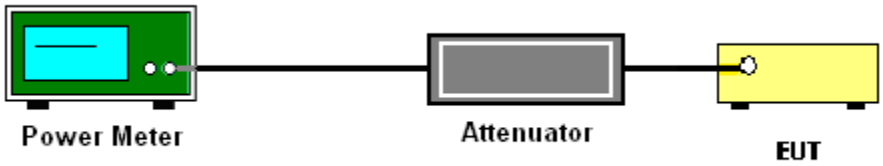
<TXBF Modes>

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 Mode>

 # 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 ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Mode>

 # Method SA-3 #

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

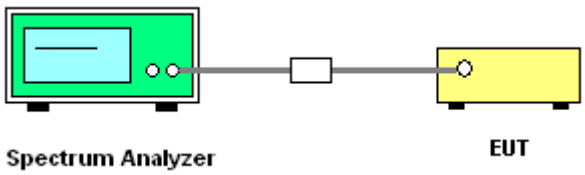
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the 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 4 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, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

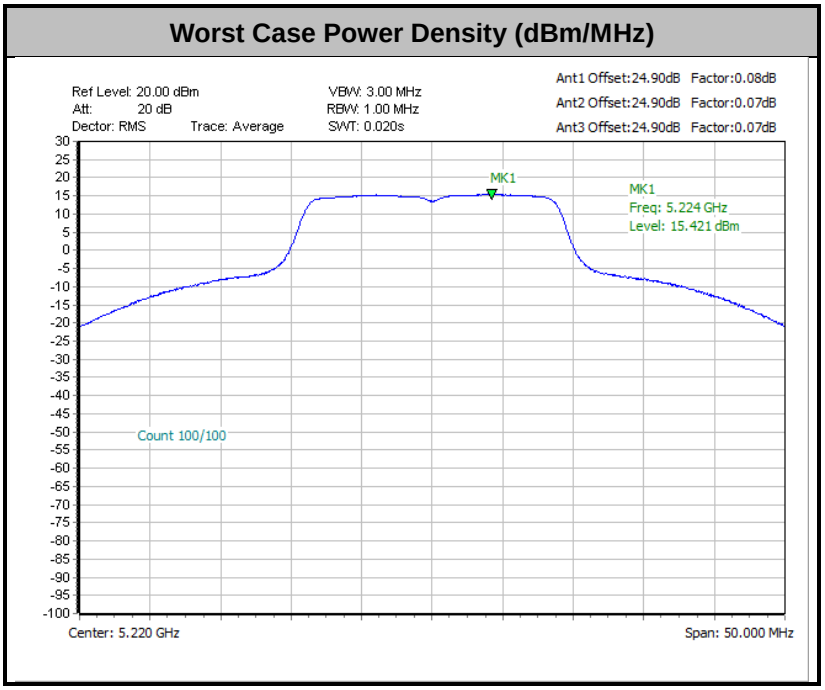
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

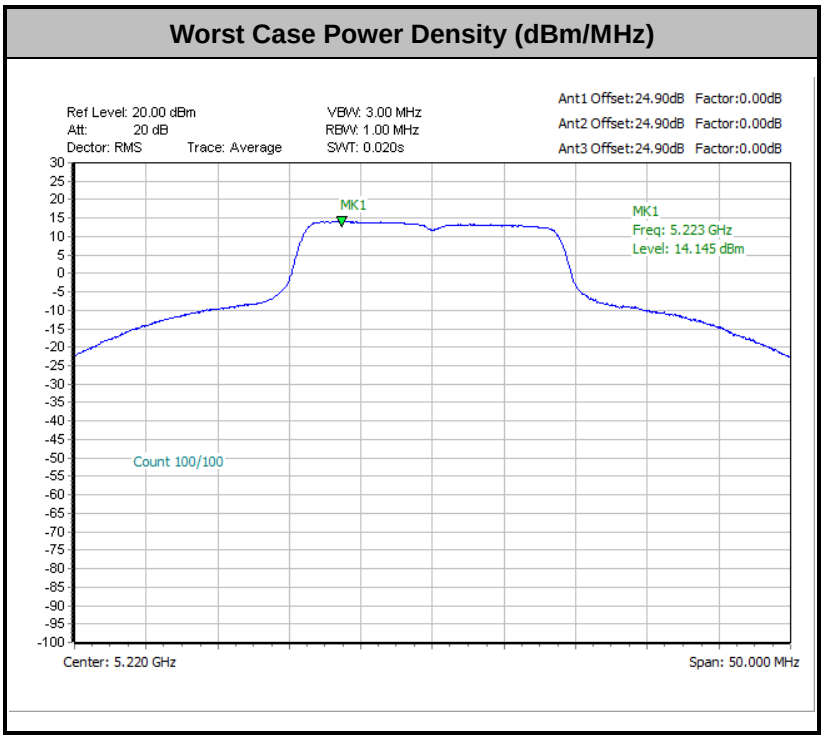
Please refer to Appendix A.

<CDD Mode>



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

<TXBF Mode>



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.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/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

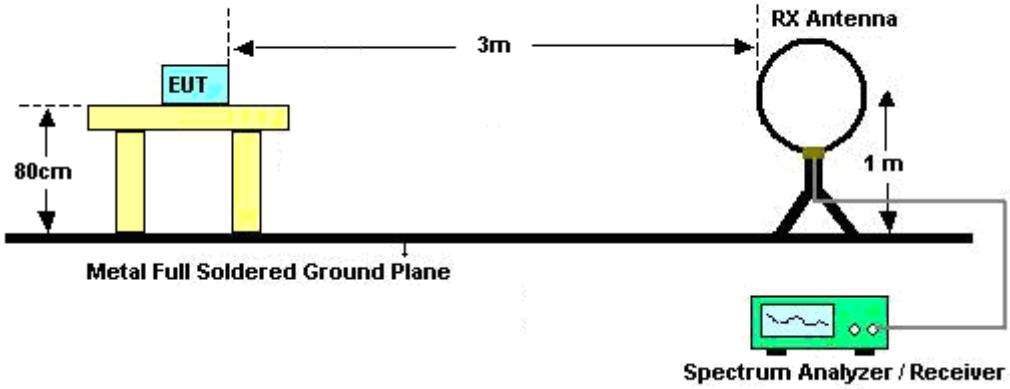
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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.

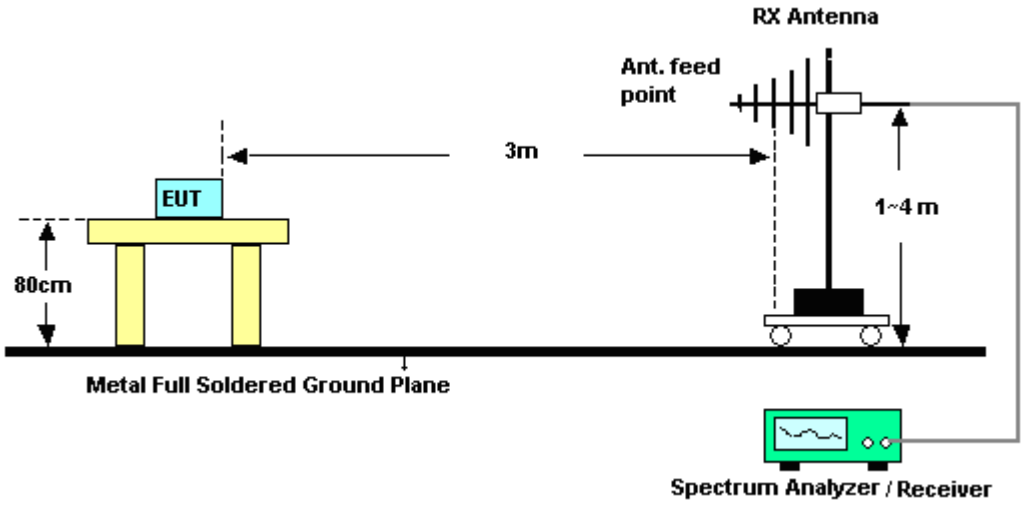
3.4.4 Test Setup

For radiated emissions below 30MHz

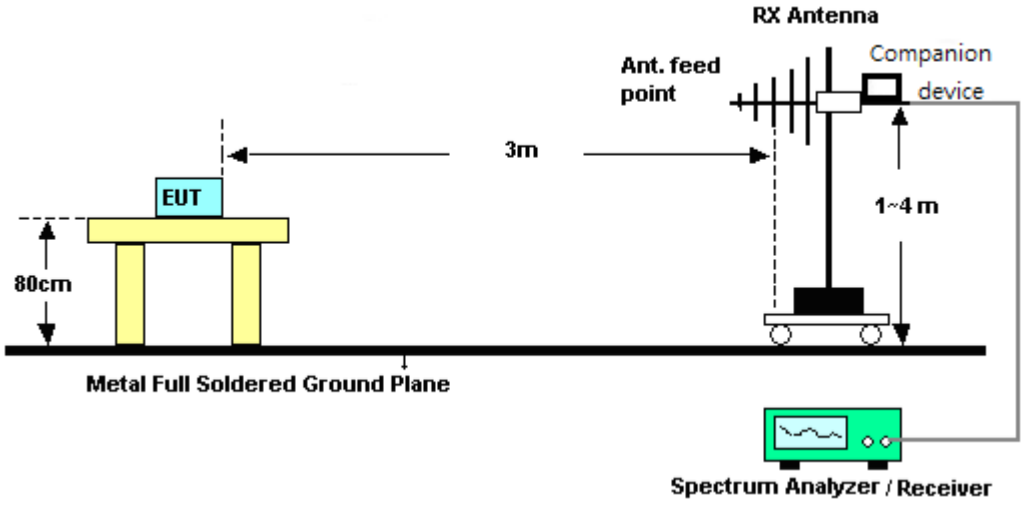


For radiated emissions from 30MHz to 1GHz

<CDD Mode>



<TXBF Mode>



For radiated emissions above 1GHz

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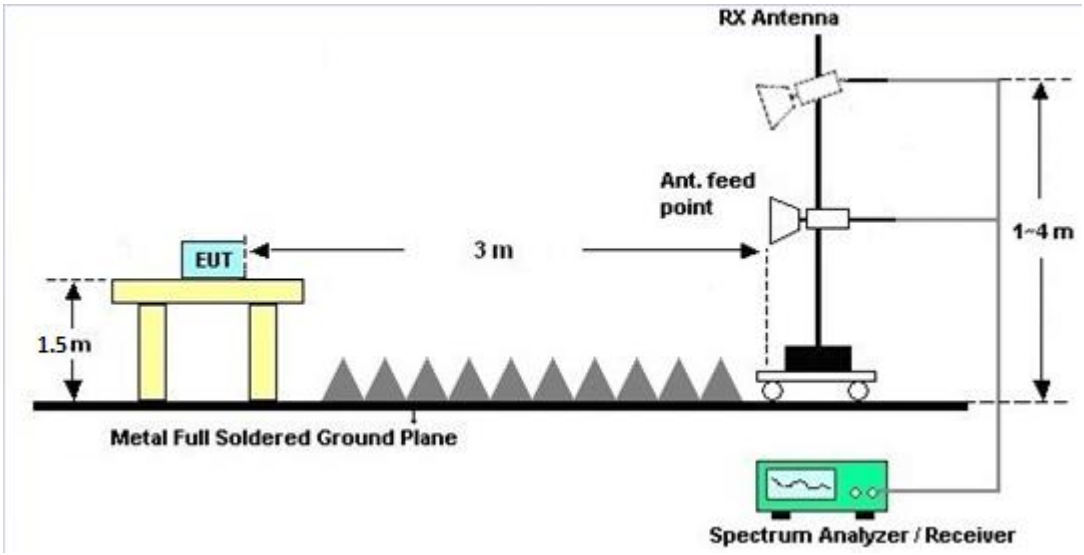

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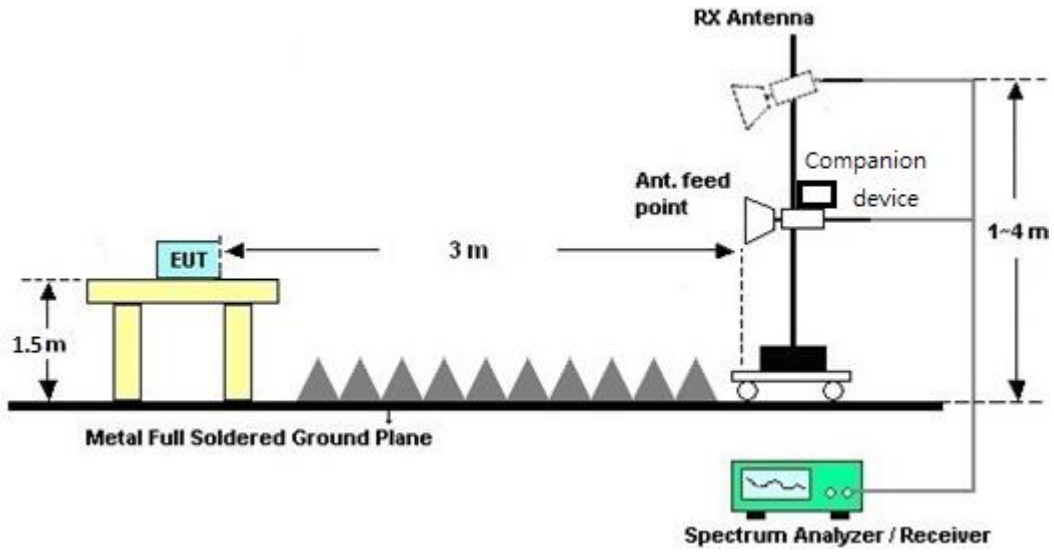


3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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

*Decreases with the logarithm of the frequency.

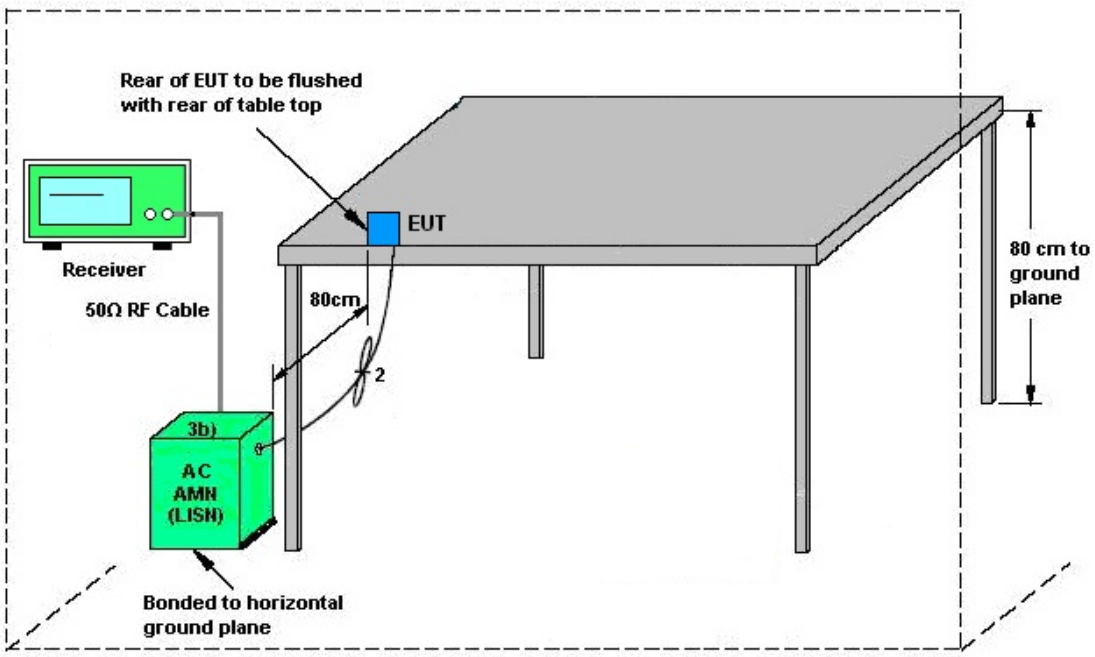
3.5.2 Measuring Instruments

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



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

3.5.5 Test Result of AC Conducted Emission

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

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 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.

Antenna Gain	Ant 1 (dBi)	Ant 2 (dBi)	Ant 3 (dBi)	Ant 4 (dBi)
5.2G Band	3.60	2.60	2.10	3.80
5.2G Band Antenna	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
1	3.60	3.60	0.00	0.00
1+2	3.60	6.12	0.00	0.12
1+2+3	3.60	7.56	0.00	1.56
1+2+3+4	3.80	9.07	0.00	3.07

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 kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth 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.

Antenna Gain	Ant 1 (dBi)	Ant 2 (dBi)	Ant 3 (dBi)	Ant 4 (dBi)
5.2G Band	3.60	2.60	2.10	3.80
5.2G Band Antenna	**DG for Power (dBi)**	**DG for PSD (dBi)**	**Power Limit Reduction (dB)**	**PSD Limit Reduction (dB)**
1+2	6.12	6.12	0.12	0.12
1+2+3	7.56	7.56	1.56	1.56
1+2+3+4	9.07	9.07	3.07	3.07

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	Feb. 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Feb. 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Feb. 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Feb. 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 27, 2019	N/A	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Sep. 14, 2018	Feb. 27, 2019	Sep. 13, 2019	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 08, 2018	Feb. 27, 2019	Nov. 07, 2019	Conduction (CO05-HY)
<CDD Mode>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Feb. 27, 2019 ~ Apr. 02, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Feb. 27, 2019 ~ Apr. 02, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Feb. 27, 2019 ~ Apr. 02, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Feb. 27, 2019 ~ Apr. 02, 2019	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208384	N/A	Apr. 17, 2018	Feb. 27, 2019 ~ Apr. 02, 2019	Apr. 16, 2019	Conducted (TH05-HY)
<TXBF Mode>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Apr. 02, 2019 ~ Apr. 09, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Apr. 02, 2019 ~ Apr. 09, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Apr. 02, 2019 ~ Apr. 09, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Apr. 02, 2019 ~ Apr. 09, 2019	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Apr. 02, 2019 ~ Apr. 09, 2019	Mar. 26, 2020	Conducted (TH05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jan. 30, 2019~ Mar. 20, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Jan. 30, 2019~ Mar. 20, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N06 02	30MHz~1GHz	Oct. 13, 2018	Jan. 30, 2019~ Mar. 20, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 30, 2018	Jan. 30, 2019~ Mar. 20, 2019	Oct. 29, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 22, 2018	Jan. 30, 2019~ Mar. 20, 2019	Nov. 21, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Jan. 30, 2019~ Mar. 20, 2019	Nov. 13, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2018	Jan. 30, 2019~ Mar. 20, 2019	Oct. 18, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 30, 2019~ Mar. 20, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 30, 2019~ Mar. 20, 2019	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	171000180005 4001	1GHz~18GHz	Apr. 16, 2018	Jan. 30, 2019~ Mar. 20, 2019	Apr. 15, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jan. 30, 2019~ Mar. 20, 2019	Dec. 04, 2019	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY53290045	N/A	Jan. 19, 2019	Jan. 30, 2019~ Mar. 20, 2019	Jan. 18, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jan. 30, 2019~ Mar. 20, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Jan. 13, 2019	Jan. 30, 2019~ Mar. 20, 2019	Jan. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Jan. 13, 2019	Jan. 30, 2019~ Mar. 20, 2019	Jan. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Jan. 13, 2019	Jan. 30, 2019~ Mar. 20, 2019	Jan. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Jan. 13, 2019	Jan. 30, 2019~ Mar. 20, 2019	Jan. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5 -6750-18000-4 0ST	SN3	6.75GHz High Pass	Sep. 17, 2018	Jan. 30, 2019~ Mar. 20, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1G Low Pass	Sep. 16, 2018	Jan. 30, 2019~ Mar. 20, 2019	Sep. 15, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700- 3000-18000-60 SS	SN3	2.7G High Pass	Sep. 16, 2018	Jan. 30, 2019~ Mar. 20, 2019	Sep. 15, 2019	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.5**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2019/02/27~04/02	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	1	36	5180	33.3				17.25				22.37			
11a	6Mbps	1	44	5220	39.8				17.70				22.48			
11a	6Mbps	1	48	5240	40.1				17.55				22.44			
VHT20	MCS0	1	36	5180	37.2				18.30				22.62			
VHT20	MCS0	1	44	5220	42.8				18.65				22.71			
VHT20	MCS0	1	48	5240	42.4				18.65				22.71			
VHT40	MCS0	1	38	5190	57.97				36.50				23.01			
VHT40	MCS0	1	46	5230	74.28				37.00				23.01			
VHT80	MCS0	1	42	5210	81.28				75.84				23.01			

Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	2	36	5180	23	23.00			17.05	17.00			22.32	22.30		
11a	6Mbps	2	44	5220	39.4	39.60			17.75	17.70			22.49	22.48		
11a	6Mbps	2	48	5240	39.9	39.20			17.95	17.55			22.54	22.44		
VHT20	MCS0	2	36	5180	34.2	31.30			18.10	17.95			22.58	22.54		
VHT20	MCS0	2	44	5220	43.25	43.05			18.55	18.80			22.68	22.74		
VHT20	MCS0	2	48	5240	42.65	41.05			18.70	18.55			22.72	22.68		
VHT40	MCS0	2	38	5190	42.48	40.86			36.60	36.60			23.01	23.01		
VHT40	MCS0	2	46	5230	80.32	72.36			37.00	36.90			23.01	23.01		
VHT80	MCS0	2	42	5210	81.6	81.28			75.60	75.84			23.01	23.01		

Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	3	36	5180	22.7	22.50	26.95		17.05	16.95	17.00		22.32	22.29	22.30	
11a	6Mbps	3	44	5220	39.4	39.60	43.50		17.60	17.45	23.45		22.46	22.42	23.01	
11a	6Mbps	3	48	5240	35.6	32.30	40.60		17.15	17.05	19.20		22.34	22.32	22.83	
VHT20	MCS0	3	36	5180	22.9	22.70	36.05		18.10	18.00	18.10		22.58	22.55	22.58	
VHT20	MCS0	3	44	5220	42.7	43.25	48.55		18.60	19.15	27.35		22.70	22.82	23.01	
VHT20	MCS0	3	48	5240	37.5	38.35	45.50		18.30	18.15	19.80		22.62	22.59	22.97	
VHT40	MCS0	3	38	5190	41.25	40.91	40.86		36.80	36.80	36.70		23.01	23.01	23.01	
VHT40	MCS0	3	46	5230	50.8	40.68	61.09		36.60	36.60	36.70		23.01	23.01	23.01	
VHT80	MCS0	3	42	5210	81.84	81.12	80.48		75.72	75.72	75.60		23.01	23.01	23.01	

Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	4	36	5180	22.65	22.75	29.72	22.70	17.10	17.00	17.05	16.85	22.33	22.30	22.32	22.27
11a	6Mbps	4	44	5220	36.2	38.05	40.75	38.35	17.25	17.20	19.80	17.35	22.37	22.36	22.97	22.39
11a	6Mbps	4	48	5240	36.7	36.40	42.60	39.45	17.25	17.35	20.00	17.25	22.37	22.39	23.01	22.37
VHT20	MCS0	4	36	5180	23.2	23.25	36.90	22.80	18.15	18.00	18.15	18.00	22.59	22.55	22.59	22.55
VHT20	MCS0	4	44	5220	36.65	38.70	43.50	38.55	18.20	18.25	19.00	18.25	22.60	22.61	22.79	22.61
VHT20	MCS0	4	48	5240	37.25	36.40	43.10	39.00	18.25	18.10	18.90	18.25	22.61	22.58	22.76	22.61
VHT40	MCS0	4	38	5190	41.28	41.04	40.86	41.05	36.70	36.70	36.70	36.60	23.01	23.01	23.01	23.01
VHT40	MCS0	4	46	5230	41.22	41.04	52.93	52.93	36.60	36.60	36.60	36.70	23.01	23.01	23.01	23.01
VHT80	MCS0	4	42	5210	81.6	81.27	80.96	80.96	75.84	75.84	75.60	75.72	23.01	23.01	23.01	23.01

Report Number : FR912813C

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	1	36	5180	1	19.50				19.50	30.00	3.60	23.10	-	Pass
11a	6Mbps	1	44	5220	1	21.20				21.20	30.00	3.60	24.80	-	Pass
11a	6Mbps	1	48	5240	1	21.10				21.10	30.00	3.60	24.70	-	Pass
HT20	MCS0	1	36	5180	1	18.90				18.90	30.00	3.60	22.50	-	Pass
HT20	MCS0	1	44	5220	1	21.10				21.10	30.00	3.60	24.70	-	Pass
HT20	MCS0	1	48	5240	1	21.20				21.20	30.00	3.60	24.80	-	Pass
HT40	MCS0	1	38	5190	1	16.30				16.30	30.00	3.60	19.90	-	Pass
HT40	MCS0	1	46	5230	1	20.10				20.10	30.00	3.60	23.70	-	Pass
VHT20	MCS0	1	36	5180	1	19.00				19.00	30.00	3.60	22.60	-	Pass
VHT20	MCS0	1	44	5220	1	21.20				21.20	30.00	3.60	24.80	-	Pass
VHT20	MCS0	1	48	5240	1	21.30				21.30	30.00	3.60	24.90	-	Pass
VHT40	MCS0	1	38	5190	1	16.40				16.40	30.00	3.60	20.00	-	Pass
VHT40	MCS0	1	46	5230	1	20.20				20.20	30.00	3.60	23.80	-	Pass
VHT80	MCS0	1	42	5210	1	16.10				16.10	30.00	3.60	19.70	-	Pass

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	2	36	5180	1+2	17.20	17.50			20.36	30.00	3.60	23.96	-	Pass
11a	6Mbps	2	44	5220	1+2	21.20	21.50			24.36	30.00	3.60	27.96	-	Pass
11a	6Mbps	2	48	5240	1+2	21.10	21.40			24.26	30.00	3.60	27.86	-	Pass
HT20	MCS0	2	36	5180	1+2	17.10	17.60			20.37	30.00	3.60	23.97	-	Pass
HT20	MCS0	2	44	5220	1+2	21.20	21.40			24.31	30.00	3.60	27.91	-	Pass
HT20	MCS0	2	48	5240	1+2	21.10	21.30			24.21	30.00	3.60	27.81	-	Pass
HT40	MCS0	2	38	5190	1+2	14.10	13.20			16.68	30.00	3.60	20.28	-	Pass
HT40	MCS0	2	46	5230	1+2	20.20	19.40			22.83	30.00	3.60	26.43	-	Pass
VHT20	MCS0	2	36	5180	1+2	17.30	17.80			20.57	30.00	3.60	24.17	-	Pass
VHT20	MCS0	2	44	5220	1+2	21.40	21.50			24.46	30.00	3.60	28.06	-	Pass
VHT20	MCS0	2	48	5240	1+2	21.30	21.40			24.36	30.00	3.60	27.96	-	Pass
VHT40	MCS0	2	38	5190	1+2	14.20	13.30			16.78	30.00	3.60	20.38	-	Pass
VHT40	MCS0	2	46	5230	1+2	20.30	19.50			22.93	30.00	3.60	26.53	-	Pass
VHT80	MCS0	2	42	5210	1+2	12.50	12.60			15.56	30.00	3.60	19.16	-	Pass

FCC Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	3	36	5180	1+2+3	14.80	15.70	17.40		20.87	30.00	3.60	24.47	-	Pass
11a	6Mbps	3	44	5220	1+2+3	20.70	21.10	22.00		26.07	30.00	3.60	29.67	-	Pass
11a	6Mbps	3	48	5240	1+2+3	19.50	19.70	21.00		24.89	30.00	3.60	28.49	-	Pass
HT20	MCS0	3	36	5180	1+2+3	14.90	15.80	17.00		20.76	30.00	3.60	24.36	-	Pass
HT20	MCS0	3	44	5220	1+2+3	21.00	21.40	22.10		26.30	30.00	3.60	29.90	-	Pass
HT20	MCS0	3	48	5240	1+2+3	19.00	19.30	20.90		24.59	30.00	3.60	28.19	-	Pass
HT40	MCS0	3	38	5190	1+2+3	12.50	11.60	13.50		17.37	30.00	3.60	20.97	-	Pass
HT40	MCS0	3	46	5230	1+2+3	14.90	13.90	15.80		19.71	30.00	3.60	23.31	-	Pass
VHT20	MCS0	3	36	5180	1+2+3	15.00	15.90	17.10		20.86	30.00	3.60	24.46	-	Pass
VHT20	MCS0	3	44	5220	1+2+3	21.00	21.50	22.20		26.37	30.00	3.60	29.97	-	Pass
VHT20	MCS0	3	48	5240	1+2+3	19.10	19.40	21.00		24.69	30.00	3.60	28.29	-	Pass
VHT40	MCS0	3	38	5190	1+2+3	12.60	11.80	13.60		17.50	30.00	3.60	21.10	-	Pass
VHT40	MCS0	3	46	5230	1+2+3	15.00	14.00	15.90		19.81	30.00	3.60	23.41	-	Pass
VHT80	MCS0	3	42	5210	1+2+3	12.20	11.70	13.50		17.31	30.00	3.60	20.91	-	Pass

FCC Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	4	36	5180	1+2+3+4	15.30	15.90	17.60	15.70	22.24	30.00	3.80	26.04	-	Pass
11a	6Mbps	4	44	5220	1+2+3+4	18.00	18.80	19.70	19.00	24.94	30.00	3.80	28.74	-	Pass
11a	6Mbps	4	48	5240	1+2+3+4	18.20	18.70	19.80	18.90	24.96	30.00	3.80	28.76	-	Pass
HT20	MCS0	4	36	5180	1+2+3+4	14.70	15.20	16.90	15.10	21.58	30.00	3.80	25.38	-	Pass
HT20	MCS0	4	44	5220	1+2+3+4	18.20	18.90	20.10	19.30	25.20	30.00	3.80	29.00	-	Pass
HT20	MCS0	4	48	5240	1+2+3+4	18.40	18.80	19.80	19.00	25.05	30.00	3.80	28.85	-	Pass
HT40	MCS0	4	38	5190	1+2+3+4	11.80	10.80	12.40	11.10	17.59	30.00	3.80	21.39	-	Pass
HT40	MCS0	4	46	5230	1+2+3+4	14.00	12.90	14.60	13.80	19.89	30.00	3.80	23.69	-	Pass
VHT20	MCS0	4	36	5180	1+2+3+4	14.80	15.30	17.00	15.20	21.68	30.00	3.80	25.48	-	Pass
VHT20	MCS0	4	44	5220	1+2+3+4	18.30	19.00	20.20	19.40	25.30	30.00	3.80	29.10	-	Pass
VHT20	MCS0	4	48	5240	1+2+3+4	18.50	18.90	19.90	19.10	25.15	30.00	3.80	28.95	-	Pass
VHT40	MCS0	4	38	5190	1+2+3+4	11.90	10.80	12.50	11.10	17.65	30.00	3.80	21.45	-	Pass
VHT40	MCS0	4	46	5230	1+2+3+4	14.10	13.00	14.70	13.90	19.99	30.00	3.80	23.79	-	Pass
VHT80	MCS0	4	42	5210	1+2+3+4	10.70	10.60	12.40	11.40	17.36	30.00	3.80	21.16	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4				
11a	6Mbps	1	36	5180	1	0.28				8.0	17.00	3.60	Pass
11a	6Mbps	1	44	5220	1	0.28				9.8	17.00	3.60	Pass
11a	6Mbps	1	48	5240	1	0.28				9.8	17.00	3.60	Pass
VHT20	MCS0	1	36	5180	1	0.08				7.8	17.00	3.60	Pass
VHT20	MCS0	1	44	5220	1	0.08				10.0	17.00	3.60	Pass
VHT20	MCS0	1	48	5240	1	0.08				9.9	17.00	3.60	Pass
VHT40	MCS0	1	38	5190	1	0.16				2.2	17.00	3.60	Pass
VHT40	MCS0	1	46	5230	1	0.16				6.0	17.00	3.60	Pass
VHT80	MCS0	1	42	5210	1	0.32				0.3	17.00	3.60	Pass

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4				
11a	6Mbps	2	36	5180	1+2	0.23	0.27			9.32	16.88	6.12	Pass
11a	6Mbps	2	44	5220	1+2	0.23	0.27			13.47	16.88	6.12	Pass
11a	6Mbps	2	48	5240	1+2	0.23	0.27			13.32	16.88	6.12	Pass
VHT20	MCS0	2	36	5180	1+2	0.07	0.09			9.16	16.88	6.12	Pass
VHT20	MCS0	2	44	5220	1+2	0.07	0.09			13.16	16.88	6.12	Pass
VHT20	MCS0	2	48	5240	1+2	0.07	0.09			12.98	16.88	6.12	Pass
VHT40	MCS0	2	38	5190	1+2	0.13	0.18			2.93	16.88	6.12	Pass
VHT40	MCS0	2	46	5230	1+2	0.13	0.18			8.93	16.88	6.12	Pass
VHT80	MCS0	2	42	5210	1+2	0.30	0.32			-0.29	16.88	6.12	Pass

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
11a	6Mbps	3	36	5180	1+2+3	0.23	0.22	0.27		10.03	15.44	7.56		Pass
11a	6Mbps	3	44	5220	1+2+3	0.23	0.22	0.27		15.14	15.44	7.56		Pass
11a	6Mbps	3	48	5240	1+2+3	0.23	0.22	0.27		12.92	15.44	7.56		Pass
VHT20	MCS0	3	36	5180	1+2+3	0.08	0.07	0.07		9.76	15.44	7.56		Pass
VHT20	MCS0	3	44	5220	1+2+3	0.08	0.07	0.07		15.42	15.44	7.56		Pass
VHT20	MCS0	3	48	5240	1+2+3	0.08	0.07	0.07		12.59	15.44	7.56		Pass
VHT40	MCS0	3	38	5190	1+2+3	0.18	0.16	0.16		3.79	15.44	7.56		Pass
VHT40	MCS0	3	46	5230	1+2+3	0.18	0.16	0.16		6.00	15.44	7.56		Pass
VHT80	MCS0	3	42	5210	1+2+3	0.29	0.31	0.30		1.71	15.44	7.56		Pass

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
11a	6Mbps	4	36	5180	1+2+3+4	0.25	0.23	0.27	0.23	9.90	13.93	9.07		Pass
11a	6Mbps	4	44	5220	1+2+3+4	0.25	0.23	0.27	0.23	13.79	13.93	9.07		Pass
11a	6Mbps	4	48	5240	1+2+3+4	0.25	0.23	0.27	0.23	13.57	13.93	9.07		Pass
VHT20	MCS0	4	36	5180	1+2+3+4	0.09	0.08	0.11	0.08	10.19	13.93	9.07		Pass
VHT20	MCS0	4	44	5220	1+2+3+4	0.09	0.08	0.11	0.08	13.81	13.93	9.07		Pass
VHT20	MCS0	4	48	5240	1+2+3+4	0.09	0.08	0.11	0.08	13.54	13.93	9.07		Pass
VHT40	MCS0	4	38	5190	1+2+3+4	0.16	0.16	0.18	0.13	3.45	13.93	9.07		Pass
VHT40	MCS0	4	46	5230	1+2+3+4	0.16	0.16	0.18	0.13	5.78	13.93	9.07		Pass
VHT80	MCS0	4	42	5210	1+2+3+4	0.31	0.31	0.26	0.32	1.21	13.93	9.07		Pass

<TXBF Mode>

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2019/4/2~4/9	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
VHT20	MCS0	2	36	5180	30.17	30.77			18.28	17.78			22.62	22.50		
VHT20	MCS0	2	44	5220	41.81	41.41			18.53	18.83			22.68	22.75		
VHT20	MCS0	2	48	5240	41.66	41.06			18.63	18.43			22.70	22.66		
VHT40	MCS0	2	38	5190	41.09	41.09			36.76	36.96			23.01	23.01		
VHT40	MCS0	2	46	5230	64.92	54.04			36.86	36.76			23.01	23.01		
VHT80	MCS0	2	42	5210	81.04	80.88			76.72	77.08			23.01	23.01		

Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
VHT20	MCS0	3	36	5180	22.83	22.63	33.27		18.18	18.08	18.28		22.60	22.57	22.62	
VHT20	MCS0	3	44	5220	22.88	22.63	36.26		18.08	18.08	18.38		22.57	22.57	22.64	
VHT20	MCS0	3	48	5240	22.78	22.58	35.61		18.18	18.13	18.38		22.60	22.58	22.64	
VHT40	MCS0	3	38	5190	41.00	40.64	40.64		36.66	36.46	36.76		23.01	23.01	23.01	
VHT40	MCS0	3	46	5230	41.09	41.00	68.24		36.66	36.76	36.86		23.01	23.01	23.01	
VHT80	MCS0	3	42	5210	81.04	81.04	79.76		77.32	76.72	76.72		23.01	23.01	23.01	

Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
VHT20	MCS0	4	36	5180	32.67	27.72	40.11	36.36	18.18	18.18	18.58	18.18	22.60	22.60	22.69	22.60
VHT20	MCS0	4	44	5220	39.86	39.71	46.75	40.66	18.58	18.53	22.18	18.88	22.69	22.68	23.01	22.76
VHT20	MCS0	4	48	5240	39.41	38.16	46.00	38.46	18.73	17.88	23.03	18.28	22.73	22.52	23.01	22.62
VHT40	MCS0	4	38	5190	40.46	41.09	40.55	40.55	36.46	36.86	36.66	36.66	23.01	23.01	23.01	23.01
VHT40	MCS0	4	46	5230	40.91	40.82	52.78	41.00	36.66	36.76	36.86	36.56	23.01	23.01	23.01	23.01
VHT80	MCS0	4	42	5210	80.56	80.56	80.72	81.36	76.60	76.60	76.96	76.72	23.01	23.01	23.01	23.01

Report Number : FR912813C

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HT20	MCS0	2	36	5180	1+2	17.50	17.70			20.61	29.88	6.12	26.74	-	Pass
HT20	MCS0	2	44	5220	1+2	21.20	21.60			24.41	29.88	6.12	30.54	-	Pass
HT20	MCS0	2	48	5240	1+2	21.20	21.40			24.31	29.88	6.12	30.44	-	Pass
HT40	MCS0	2	38	5190	1+2	14.40	13.50			16.98	29.88	6.12	23.11	-	Pass
HT40	MCS0	2	46	5230	1+2	17.90	16.70			20.35	29.88	6.12	26.48	-	Pass
VHT20	MCS0	2	36	5180	1+2	17.60	17.80			20.71	29.88	6.12	26.84	-	Pass
VHT20	MCS0	2	44	5220	1+2	21.30	21.70			24.51	29.88	6.12	30.64	-	Pass
VHT20	MCS0	2	48	5240	1+2	21.30	21.50			24.41	29.88	6.12	30.54	-	Pass
VHT40	MCS0	2	38	5190	1+2	14.50	13.60			17.08	29.88	6.12	23.21	-	Pass
VHT40	MCS0	2	46	5230	1+2	18.00	16.80			20.45	29.88	6.12	26.58	-	Pass
VHT80	MCS0	2	42	5210	1+2	13.50	13.70			16.61	29.88	6.12	22.74	-	Pass

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HT20	MCS0	3	36	5180	1+2+3	16.40	16.80	18.60		22.15	28.44	7.56	29.71	-	Pass
HT20	MCS0	3	44	5220	1+2+3	21.10	21.70	22.80		26.70	28.44	7.56	34.26	-	Pass
HT20	MCS0	3	48	5240	1+2+3	21.10	21.50	22.90		26.68	28.44	7.56	34.24	-	Pass
HT40	MCS0	3	38	5190	1+2+3	13.40	12.80	14.40		18.36	28.44	7.56	25.92	-	Pass
HT40	MCS0	3	46	5230	1+2+3	16.00	14.70	16.80		20.69	28.44	7.56	28.25	-	Pass
VHT20	MCS0	3	36	5180	1+2+3	16.50	16.90	18.70		22.25	28.44	7.56	29.81	-	Pass
VHT20	MCS0	3	44	5220	1+2+3	21.20	21.80	22.90		26.80	28.44	7.56	34.36	-	Pass
VHT20	MCS0	3	48	5240	1+2+3	21.20	21.60	23.00		26.78	28.44	7.56	34.34	-	Pass
VHT40	MCS0	3	38	5190	1+2+3	13.50	12.90	14.50		18.46	28.44	7.56	26.02	-	Pass
VHT40	MCS0	3	46	5230	1+2+3	16.10	14.80	16.90		20.79	28.44	7.56	28.35	-	Pass
VHT80	MCS0	3	42	5210	1+2+3	10.90	11.30	13.10		16.65	28.44	7.56	24.21	-	Pass

FCC Band I															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HT20	MCS0	4	36	5180	1+2+3+4	16.80	17.10	19.30	17.10	23.72	26.93	9.07	32.79	-	Pass
HT20	MCS0	4	44	5220	1+2+3+4	19.40	20.00	21.50	19.90	26.29	26.93	9.07	35.37	-	Pass
HT20	MCS0	4	48	5240	1+2+3+4	19.50	19.50	21.40	19.90	26.17	26.93	9.07	35.24	-	Pass
HT40	MCS0	4	38	5190	1+2+3+4	13.20	12.40	14.60	12.40	19.27	26.93	9.07	28.34	-	Pass
HT40	MCS0	4	46	5230	1+2+3+4	14.80	13.40	16.00	13.80	20.64	26.93	9.07	29.71	-	Pass
VHT20	MCS0	4	36	5180	1+2+3+4	16.90	17.20	19.40	17.20	23.82	26.93	9.07	32.89	-	Pass
VHT20	MCS0	4	44	5220	1+2+3+4	19.50	20.10	21.60	20.00	26.39	26.93	9.07	35.47	-	Pass
VHT20	MCS0	4	48	5240	1+2+3+4	19.60	19.60	21.50	20.00	26.27	26.93	9.07	35.34	-	Pass
VHT40	MCS0	4	38	5190	1+2+3+4	13.30	12.50	14.70	12.50	19.37	26.93	9.07	28.44	-	Pass
VHT40	MCS0	4	46	5230	1+2+3+4	14.90	13.50	16.10	13.90	20.74	26.93	9.07	29.81	-	Pass
VHT80	MCS0	4	42	5210	1+2+3+4	11.70	12.20	13.80	12.50	18.64	26.93	9.07	27.72	-	Pass

Report Number : FR912813C

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
VHT20	MCS0	2	36	5180	1+2	7.99	16.88	6.12		Pass
VHT20	MCS0	2	44	5220	1+2	12.62	16.88	6.12		Pass
VHT20	MCS0	2	48	5240	1+2	12.04	16.88	6.12		Pass
VHT40	MCS0	2	38	5190	1+2	1.40	16.88	6.12		Pass
VHT40	MCS0	2	46	5230	1+2	5.13	16.88	6.12		Pass
VHT80	MCS0	2	42	5210	1+2	-0.30	16.88	6.12		Pass

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
VHT20	MCS0	3	36	5180	1+2+3	9.70	15.44	7.56		Pass
VHT20	MCS0	3	44	5220	1+2+3	14.15	15.44	7.56		Pass
VHT20	MCS0	3	48	5240	1+2+3	14.09	15.44	7.56		Pass
VHT40	MCS0	3	38	5190	1+2+3	3.42	15.44	7.56		Pass
VHT40	MCS0	3	46	5230	1+2+3	5.12	15.44	7.56		Pass
VHT80	MCS0	3	42	5210	1+2+3	-0.97	15.44	7.56		Pass

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
VHT20	MCS0	4	36	5180	1+2+3+4	10.97	13.93	9.07		Pass
VHT20	MCS0	4	44	5220	1+2+3+4	13.45	13.93	9.07		Pass
VHT20	MCS0	4	48	5240	1+2+3+4	13.43	13.93	9.07		Pass
VHT40	MCS0	4	38	5190	1+2+3+4	4.04	13.93	9.07		Pass
VHT40	MCS0	4	46	5230	1+2+3+4	4.91	13.93	9.07		Pass
VHT80	MCS0	4	42	5210	1+2+3+4	0.57	13.93	9.07		Pass

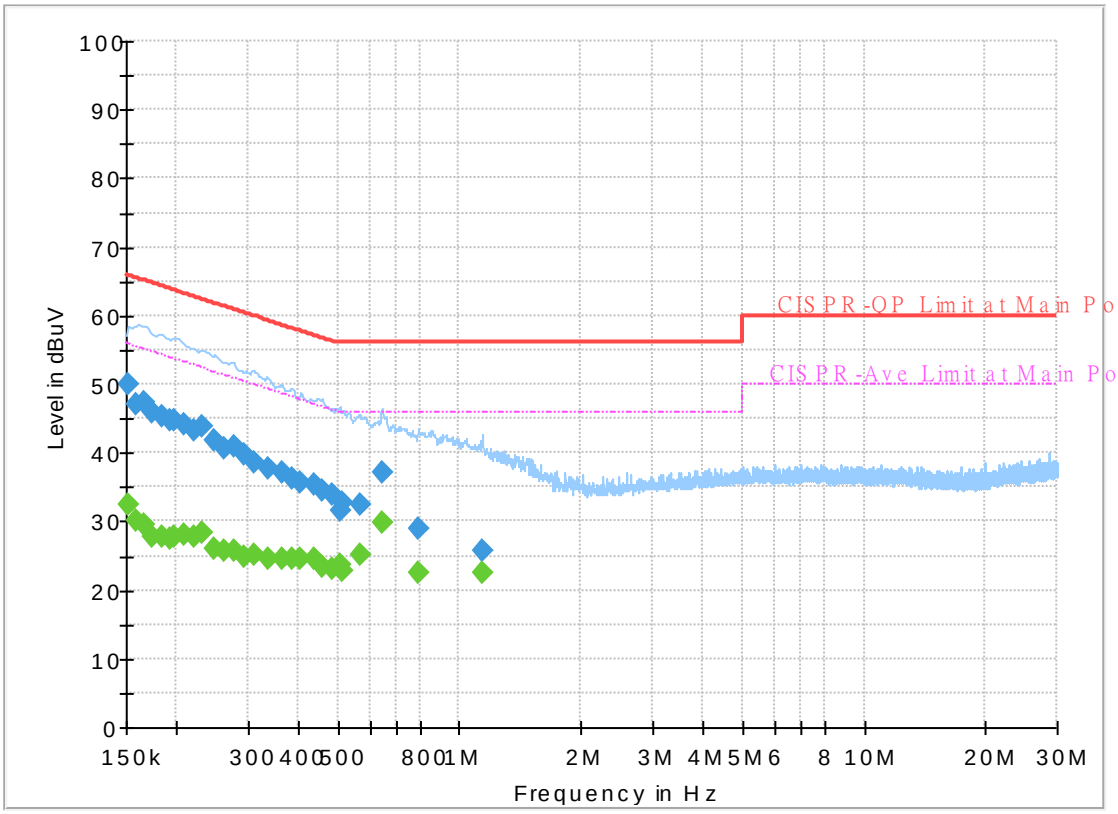
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Rick Lin	**Temperature :**	25~26℃
		Relative Humidity :	52~54%

EUT Information

Report NO :	912813
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

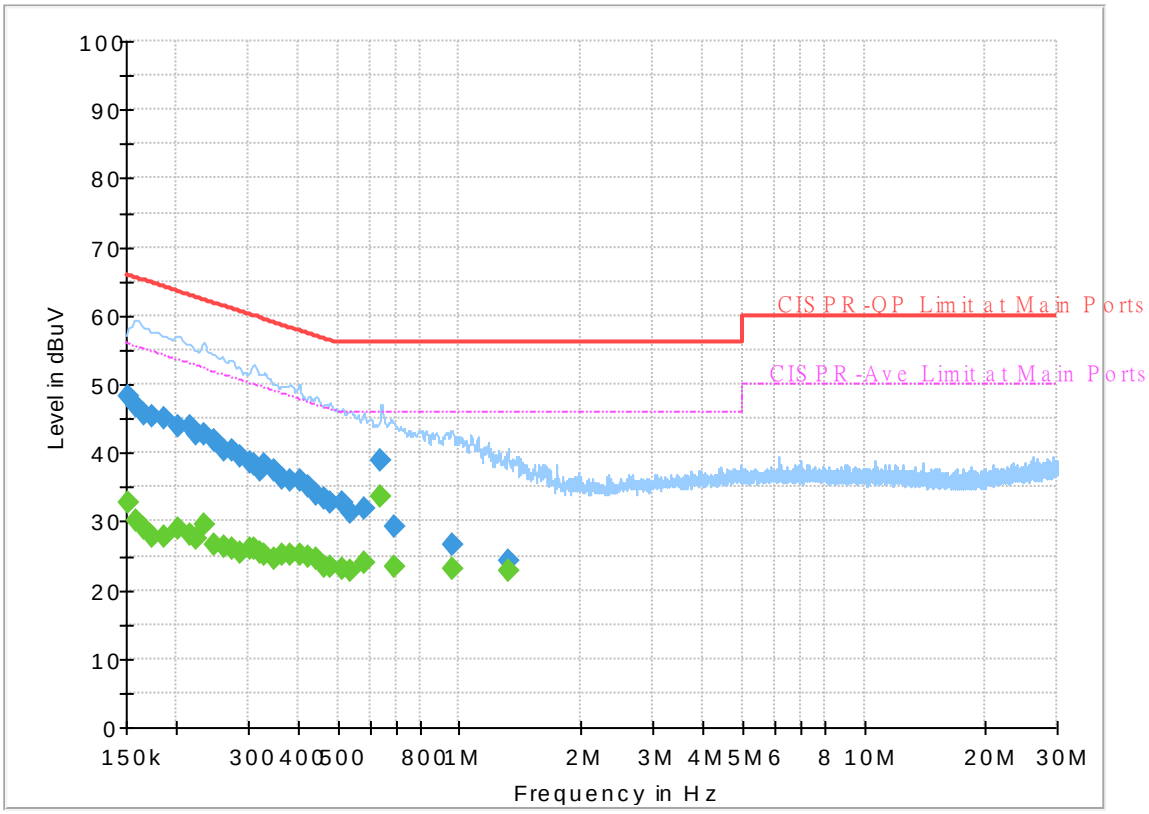
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.50	55.88	23.38	L1	OFF	19.5
0.152250	49.93	---	65.88	15.95	L1	OFF	19.5
0.159000	---	30.22	55.52	25.30	L1	OFF	19.5
0.159000	47.00	---	65.52	18.52	L1	OFF	19.5
0.165750	---	29.42	55.17	25.75	L1	OFF	19.5
0.165750	47.37	---	65.17	17.80	L1	OFF	19.5
0.174750	---	27.67	54.73	27.06	L1	OFF	19.5
0.174750	45.93	---	64.73	18.80	L1	OFF	19.5
0.183750	---	27.91	54.31	26.40	L1	OFF	19.5
0.183750	45.29	---	64.31	19.02	L1	OFF	19.5
0.192750	---	27.35	53.92	26.57	L1	OFF	19.5
0.192750	44.67	---	63.92	19.25	L1	OFF	19.5
0.197250	---	27.69	53.73	26.04	L1	OFF	19.5
0.197250	44.84	---	63.73	18.89	L1	OFF	19.5
0.208500	---	28.19	53.27	25.08	L1	OFF	19.5
0.208500	44.11	---	63.27	19.16	L1	OFF	19.5
0.219750	---	27.70	52.83	25.13	L1	OFF	19.5
0.219750	43.19	---	62.83	19.64	L1	OFF	19.5
0.231000	---	28.35	52.41	24.06	L1	OFF	19.5
0.231000	43.77	---	62.41	18.64	L1	OFF	19.5
0.249000	---	26.17	51.79	25.62	L1	OFF	19.5

0.249000	41.73	---	61.79	20.06	L1	OFF	19.5
0.262500	---	25.87	51.35	25.48	L1	OFF	19.5
0.262500	40.71	---	61.35	20.64	L1	OFF	19.5
0.276000	---	25.78	50.94	25.16	L1	OFF	19.5
0.276000	40.82	---	60.94	20.12	L1	OFF	19.5
0.294000	---	24.87	50.41	25.54	L1	OFF	19.5
0.294000	39.64	---	60.41	20.77	L1	OFF	19.5
0.312000	---	25.12	49.92	24.80	L1	OFF	19.5
0.312000	38.45	---	59.92	21.47	L1	OFF	19.5
0.336750	---	24.70	49.28	24.58	L1	OFF	19.5
0.336750	37.58	---	59.28	21.70	L1	OFF	19.5
0.363750	---	24.49	48.64	24.15	L1	OFF	19.5
0.363750	37.17	---	58.64	21.47	L1	OFF	19.5
0.386250	---	24.50	48.14	23.64	L1	OFF	19.5
0.386250	36.22	---	58.14	21.92	L1	OFF	19.5
0.406500	---	24.42	47.72	23.30	L1	OFF	19.5
0.406500	35.76	---	57.72	21.96	L1	OFF	19.5
0.435750	---	24.66	47.14	22.48	L1	OFF	19.5
0.435750	35.31	---	57.14	21.83	L1	OFF	19.5
0.458250	---	23.50	46.72	23.22	L1	OFF	19.5
0.458250	34.48	---	56.72	22.24	L1	OFF	19.5
0.483000	---	23.24	46.29	23.05	L1	OFF	19.5
0.483000	33.85	---	56.29	22.44	L1	OFF	19.5
0.505500	---	23.58	46.00	22.42	L1	OFF	19.5
0.505500	31.62	---	56.00	24.38	L1	OFF	19.5
0.514500	---	22.95	46.00	23.05	L1	OFF	19.5
0.514500	32.64	---	56.00	23.36	L1	OFF	19.5
0.566250	---	25.21	46.00	20.79	L1	OFF	19.5
0.566250	32.37	---	56.00	23.63	L1	OFF	19.5
0.642750	---	29.93	46.00	16.07	L1	OFF	19.6
0.642750	37.20	---	56.00	18.80	L1	OFF	19.6
0.793500	---	22.54	46.00	23.46	L1	OFF	19.6
0.793500	28.91	---	56.00	27.09	L1	OFF	19.6
1.137750	---	22.55	46.00	23.45	L1	OFF	19.6
1.137750	25.59	---	56.00	30.41	L1	OFF	19.6

EUT Information

Report NO :	912813
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)
0.152250	---	32.71	55.88	23.17	N	OFF	19.5
0.152250	48.15	---	65.88	17.73	N	OFF	19.5
0.159000	---	30.10	55.52	25.42	N	OFF	19.5
0.159000	46.79	---	65.52	18.73	N	OFF	19.5
0.165750	---	29.02	55.17	26.15	N	OFF	19.5
0.165750	45.57	---	65.17	19.60	N	OFF	19.5
0.174750	---	27.69	54.73	27.04	N	OFF	19.5
0.174750	45.19	---	64.73	19.54	N	OFF	19.5
0.186000	---	27.76	54.21	26.45	N	OFF	19.5
0.186000	44.95	---	64.21	19.26	N	OFF	19.5
0.201750	---	28.92	53.54	24.62	N	OFF	19.5
0.201750	43.96	---	63.54	19.58	N	OFF	19.5
0.215250	---	28.03	53.00	24.97	N	OFF	19.5
0.215250	43.77	---	63.00	19.23	N	OFF	19.5
0.224250	---	27.49	52.66	25.17	N	OFF	19.5
0.224250	42.72	---	62.66	19.94	N	OFF	19.5
0.233250	---	29.51	52.33	22.82	N	OFF	19.5
0.233250	42.65	---	62.33	19.68	N	OFF	19.5
0.249000	---	26.74	51.79	25.05	N	OFF	19.5
0.249000	41.88	---	61.79	19.91	N	OFF	19.5
0.262500	---	26.25	51.35	25.10	N	OFF	19.5

0.262500	40.22	---	61.35	21.13	N	OFF	19.5
0.273750	---	26.10	51.00	24.90	N	OFF	19.5
0.273750	40.49	---	61.00	20.51	N	OFF	19.5
0.287250	---	25.55	50.60	25.05	N	OFF	19.5
0.287250	39.51	---	60.60	21.09	N	OFF	19.5
0.303000	---	26.11	50.16	24.05	N	OFF	19.5
0.303000	38.50	---	60.16	21.66	N	OFF	19.5
0.309750	---	25.96	49.98	24.02	N	OFF	19.5
0.309750	38.33	---	59.98	21.65	N	OFF	19.5
0.321000	---	25.53	49.68	24.15	N	OFF	19.5
0.321000	37.57	---	59.68	22.11	N	OFF	19.5
0.330000	---	25.20	49.45	24.25	N	OFF	19.5
0.330000	38.16	---	59.45	21.29	N	OFF	19.5
0.348000	---	24.57	49.01	24.44	N	OFF	19.5
0.348000	37.42	---	59.01	21.59	N	OFF	19.5
0.366000	---	25.21	48.59	23.38	N	OFF	19.5
0.366000	36.34	---	58.59	22.25	N	OFF	19.5
0.384000	---	25.24	48.19	22.95	N	OFF	19.5
0.384000	35.99	---	58.19	22.20	N	OFF	19.5
0.402000	---	25.16	47.81	22.65	N	OFF	19.5
0.402000	35.99	---	57.81	21.82	N	OFF	19.5
0.424500	---	24.89	47.36	22.47	N	OFF	19.5
0.424500	35.02	---	57.36	22.34	N	OFF	19.5
0.442500	---	24.47	47.02	22.55	N	OFF	19.5
0.442500	34.05	---	57.02	22.97	N	OFF	19.5
0.462750	---	23.43	46.64	23.21	N	OFF	19.5
0.462750	33.35	---	56.64	23.29	N	OFF	19.5
0.480750	---	23.38	46.33	22.95	N	OFF	19.5
0.480750	32.61	---	56.33	23.72	N	OFF	19.5
0.514500	---	23.01	46.00	22.99	N	OFF	19.5
0.514500	32.64	---	56.00	23.36	N	OFF	19.5
0.537000	---	22.89	46.00	23.11	N	OFF	19.5
0.537000	31.30	---	56.00	24.70	N	OFF	19.5
0.582000	---	24.01	46.00	21.99	N	OFF	19.5
0.582000	31.83	---	56.00	24.17	N	OFF	19.5
0.640500	---	33.49	46.00	12.51	N	OFF	19.6
0.640500	38.96	---	56.00	17.04	N	OFF	19.6
0.692250	---	23.35	46.00	22.65	N	OFF	19.6
0.692250	29.30	---	56.00	26.70	N	OFF	19.6
0.957750	---	23.11	46.00	22.89	N	OFF	19.6
0.957750	26.54	---	56.00	29.46	N	OFF	19.6
1.317750	---	22.67	46.00	23.33	N	OFF	19.6
1.317750	24.13	---	56.00	31.87	N	OFF	19.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu, and JC Liang	Temperature :	20~25°C
		Relative Humidity :	50~55%

<CDD Mode>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5149.24	64.49	-9.51	74	56.03	31.9	9.68	33.12	207	289	P	H
		5150	52.67	-1.33	54	44.2	31.9	9.69	33.12	207	289	A	H
	*	5180	113.73	-	-	105.4	31.72	9.73	33.12	207	289	P	H
	*	5180	105.5	-	-	97.17	31.72	9.73	33.12	207	289	A	H
													H
		5150	59.44	-14.56	74	50.97	31.9	9.69	33.12	194	99	P	V
		5149.5	50.4	-3.6	54	41.94	31.9	9.68	33.12	194	99	A	V
	*	5180	110.74	-	-	102.41	31.72	9.73	33.12	194	99	P	V
	*	5180	102.5	-	-	94.17	31.72	9.73	33.12	194	99	A	V
													V
802.11a CH 44 5220MHz		5142.22	53.72	-20.28	74	45.29	31.88	9.67	33.12	207	288	P	H
		5147.16	46.39	-7.61	54	37.94	31.89	9.68	33.12	207	288	A	H
	*	5220	115.3	-	-	107.13	31.52	9.77	33.12	207	288	P	H
	*	5220	107.6	-	-	99.43	31.52	9.77	33.12	207	288	A	H
		5353.36	58.11	-15.89	74	50.08	31.32	9.82	33.11	207	288	P	H
		5378.74	50.19	-3.81	54	42	31.47	9.83	33.11	207	288	A	H
		5136.76	51.91	-22.09	74	43.49	31.87	9.67	33.12	228	98	P	V
		5142.22	44.68	-9.32	54	36.25	31.88	9.67	33.12	228	98	A	V
	*	5220	112.07	-	-	103.9	31.52	9.77	33.12	228	98	P	V
	*	5220	104.31	-	-	96.14	31.52	9.77	33.12	228	98	A	V
		5374.96	53.46	-20.54	74	45.29	31.45	9.83	33.11	228	98	P	V
		5373.61	46.21	-7.79	54	38.05	31.44	9.83	33.11	228	98	A	V

802.11a CH 48 5240MHz		5145.86	51.89	-22.11	74	43.44	31.89	9.68	33.12	200	288	P	H
		5150	44.55	-9.45	54	36.08	31.9	9.69	33.12	200	288	A	H
	*	5240	115.7	-	-	107.6	31.44	9.78	33.12	200	288	P	H
	*	5240	107.4	-	-	99.3	31.44	9.78	33.12	200	288	A	H
		5403.31	56.81	-17.19	74	48.47	31.61	9.84	33.11	200	288	P	H
		5397.1	49.55	-4.45	54	41.24	31.58	9.84	33.11	200	288	A	H
		5130	51.34	-22.66	74	42.95	31.86	9.65	33.12	200	99	P	V
		5150	43.02	-10.98	54	34.55	31.9	9.69	33.12	200	99	A	V
	*	5240	111.9	-	-	103.8	31.44	9.78	33.12	200	99	P	V
	*	5240	104	-	-	95.9	31.44	9.78	33.12	200	99	A	V
		5396.56	56.47	-17.53	74	48.16	31.58	9.84	33.11	200	99	P	V
		5398.18	46.56	-7.44	54	38.24	31.59	9.84	33.11	200	99	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5422	56.15	-17.85	74	47.76	31.64	9.86	33.11	207	289	P	H
		5422	47.72	-6.28	54	39.33	31.64	9.86	33.11	207	289	A	H
		10360	45.74	-22.46	68.2	51.7	39.54	15.26	60.76	100	0	P	H
		15540	42.58	-31.42	74	45.95	38.3	18.9	60.57	100	0	P	H
		5470	55.96	-12.24	68.2	47.39	31.78	9.9	33.11	194	99	P	V
		10360	52.49	-15.71	68.2	58.45	39.54	15.26	60.76	100	0	P	V
		15540	41.78	-32.22	74	45.15	38.3	18.9	60.57	100	0	P	V
													V
802.11a CH 44 5220MHz		5512	58.53	-9.67	68.2	49.82	31.88	9.94	33.11	100	0	P	H
		10440	49.5	-18.7	68.2	55.37	39.7	15.31	60.88	100	0	P	H
		15660	44.92	-29.08	74	48.75	37.7	18.95	60.48	100	0	P	H
													H
		5518	58.85	-9.35	68.2	50.16	31.86	9.95	33.12	100	0	P	V
		10440	53.78	-14.42	68.2	59.65	39.7	15.31	60.88	100	0	P	V
		15660	44.47	-29.53	74	48.3	37.7	18.95	60.48	100	0	P	V
													V
802.11a CH 48 5240MHz		5536	59	-9.2	68.2	50.33	31.83	9.96	33.12	200	288		H
		10480	50.84	-17.36	68.2	56.78	39.7	15.33	60.97	100	0		H
		15720	43.5	-30.5	74	47.42	37.52	18.98	60.42	100	0		H
													H
		5536	57.02	-11.18	68.2	48.35	31.83	9.96	33.12	200	99		V
		10480	55.44	-12.76	68.2	61.38	39.7	15.33	60.97	100	0		V
		15720	42.65	-31.35	74	46.57	37.52	18.98	60.42	100	0		V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac 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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5149.24	64.46	-9.54	74	56	31.9	9.68	33.12	207	287	P	H
		5149.76	52.6	-1.4	54	44.14	31.9	9.68	33.12	207	287	A	H
	*	5180	113.15	-	-	104.82	31.72	9.73	33.12	207	287	P	H
	*	5180	104.79	-	-	96.46	31.72	9.73	33.12	207	287	A	H
802.11ac													H
VHT20													H
CH 36		5150	59.45	-14.55	74	50.98	31.9	9.69	33.12	228	99	P	V
5180MHz		5149.76	50.15	-3.85	54	41.69	31.9	9.68	33.12	228	99	A	V
	*	5180	110.8	-	-	102.47	31.72	9.73	33.12	228	99	P	V
	*	5180	102.18	-	-	93.85	31.72	9.73	33.12	228	99	A	V
													V
													V
		5143	55.98	-18.02	74	47.54	31.89	9.67	33.12	205	288	P	H
		5147.42	46.97	-7.03	54	38.52	31.89	9.68	33.12	205	288	A	H
	*	5220	115.61	-	-	107.44	31.52	9.77	33.12	205	288	P	H
	*	5220	107.29	-	-	99.12	31.52	9.77	33.12	205	288	A	H
802.11ac		5375.23	58.61	-15.39	74	50.44	31.45	9.83	33.11	205	288	P	H
VHT20		5379.28	50.12	-3.88	54	41.92	31.48	9.83	33.11	205	288	A	H
CH 44		5142.22	52.07	-21.93	74	43.64	31.88	9.67	33.12	205	98	P	V
5220MHz		5146.12	45.14	-8.86	54	36.69	31.89	9.68	33.12	205	98	A	V
	*	5220	112.37	-	-	104.2	31.52	9.77	33.12	205	98	P	V
	*	5220	103.47	-	-	95.3	31.52	9.77	33.12	205	98	A	V
		5387.11	55.39	-18.61	74	47.15	31.52	9.83	33.11	205	98	P	V
		5383.87	46.6	-7.4	54	38.38	31.5	9.83	33.11	205	98	A	V

		5143	52.38	-21.62	74	43.94	31.89	9.67	33.12	200	288	P	H
		5149.24	44.19	-9.81	54	35.73	31.9	9.68	33.12	200	288	A	H
	*	5240	115.61	-	-	107.51	31.44	9.78	33.12	200	288	P	H
	*	5240	107.12	-	-	99.02	31.44	9.78	33.12	200	288	A	H
802.11ac		5394.4	57.59	-16.41	74	49.29	31.57	9.84	33.11	200	288	P	H
VHT20		5395.21	48.73	-5.27	54	40.43	31.57	9.84	33.11	200	288	A	H
CH 48		5086.32	51.57	-22.43	74	43.35	31.75	9.59	33.12	200	99	P	V
5240MHz		5149.76	43.1	-10.9	54	34.64	31.9	9.68	33.12	200	99	A	V
	*	5240	112.31	-	-	104.21	31.44	9.78	33.12	200	99	P	V
	*	5240	104.12	-	-	96.02	31.44	9.78	33.12	200	99	A	V
		5397.91	54.52	-19.48	74	46.2	31.59	9.84	33.11	200	99	P	V
		5393.32	46.51	-7.49	54	38.22	31.56	9.84	33.11	200	99	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10360	49.39	-18.81	68.2	55.35	39.54	15.26	60.76	100	0	P	H
		15540	42.17	-31.83	74	45.54	38.3	18.9	60.57	100	0	P	H
802.11ac													H
VHT20													H
CH 36		10360	51.58	-16.62	68.2	57.54	39.54	15.26	60.76	100	0	P	V
5180MHz		15540	42.11	-31.89	74	45.48	38.3	18.9	60.57	100	0	P	V
													V
													V
		10440	51.8	-16.4	68.2	57.67	39.7	15.31	60.88	100	0	P	H
		15660	43.27	-30.73	74	47.1	37.7	18.95	60.48	100	0	P	H
802.11ac													H
VHT20													H
CH 44		10440	50.49	-17.71	68.2	56.36	39.7	15.31	60.88	100	0	P	V
5220MHz		15660	44.22	-29.78	74	48.05	37.7	18.95	60.48	100	0	P	V
													V
													V
		10480	48.82	-19.38	68.2	54.76	39.7	15.33	60.97	100	0	P	H
		15720	40.71	-33.29	74	44.63	37.52	18.98	60.42	100	0	P	H
802.11ac													H
VHT20													H
CH 48		10480	55.06	-13.14	68.2	61	39.7	15.33	60.97	100	0	P	V
5240MHz		15720	41.37	-32.63	74	45.29	37.52	18.98	60.42	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5148.98	61.62	-12.38	74	53.16	31.9	9.68	33.12	194	288	P	H
		5149.5	52.21	-1.79	54	43.75	31.9	9.68	33.12	194	288	A	H
	*	5190	108.62	-	-	100.34	31.66	9.74	33.12	194	288	P	H
	*	5190	99.36	-	-	91.08	31.66	9.74	33.12	194	288	A	H
802.11ac		5358.36	59.25	-14.75	74	51.19	31.35	9.82	33.11	194	288	P	H
VHT40		5358.36	50.58	-3.42	54	42.52	31.35	9.82	33.11	194	288	A	H
CH 38		5145.34	58.62	-15.38	74	50.17	31.89	9.68	33.12	200	107	P	V
5190MHz		5150	47.74	-6.26	54	39.27	31.9	9.69	33.12	200	107	A	V
	*	5190	104.76	-	-	96.48	31.66	9.74	33.12	200	107	P	V
	*	5190	96.17	-	-	87.89	31.66	9.74	33.12	200	107	A	V
		5355.28	55.29	-18.71	74	47.25	31.33	9.82	33.11	200	107	P	V
		5356.12	47.92	-6.08	54	39.87	31.34	9.82	33.11	200	107	A	V
		5147.42	57.04	-16.96	74	48.59	31.89	9.68	33.12	205	289	P	H
		5147.94	48.64	-5.36	54	40.18	31.9	9.68	33.12	205	289	A	H
	*	5230	112.24	-	-	104.11	31.48	9.77	33.12	205	289	P	H
	*	5230	103.84	-	-	95.71	31.48	9.77	33.12	205	289	A	H
802.11ac		5381.32	61.98	-12.02	74	53.77	31.49	9.83	33.11	205	289	P	H
VHT40		5385.8	52.71	-1.29	54	44.48	31.51	9.83	33.11	205	289	A	H
CH 46		5147.94	54.23	-19.77	74	45.77	31.9	9.68	33.12	219	101	P	V
5230MHz		5145.34	46.43	-7.57	54	37.98	31.89	9.68	33.12	219	101	A	V
	*	5230	108.65	-	-	100.52	31.48	9.77	33.12	219	101	P	V
	*	5230	99.64	-	-	91.51	31.48	9.77	33.12	219	101	A	V
		5381.88	57.49	-16.51	74	49.28	31.49	9.83	33.11	219	101	P	V
		5398.4	49.54	-4.46	54	41.22	31.59	9.84	33.11	219	101	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)

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10380	44.06	-24.14	68.2	49.96	39.62	15.27	60.79	100	0	P	H
		15570	40.91	-33.09	74	44.39	38.15	18.91	60.54	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	43.36	-24.84	68.2	49.26	39.62	15.27	60.79	100	0	P	V
5190MHz		15570	41.36	-32.64	74	44.84	38.15	18.91	60.54	100	0	P	V
													V
													V
		5488	56.77	-11.43	68.2	48.11	31.85	9.92	33.11	205	289	P	H
		5536	55.14	-13.06	68.2	46.47	31.83	9.96	33.12	205	289	P	H
802.11ac		10460	46.76	-21.44	68.2	52.65	39.7	15.32	60.91	100	0	P	H
VHT40		15690	42.78	-31.22	74	46.71	37.55	18.97	60.45	100	0	P	H
CH 46		5476	55.51	-12.69	68.2	46.91	31.8	9.91	33.11	219	101	P	V
5230MHz		5554	54.88	-13.32	68.2	46.23	31.8	9.98	33.13	219	101	P	V
		10460	48.24	-19.96	68.2	54.13	39.7	15.32	60.91	100	0	P	V
		15690	42.84	-31.16	74	46.77	37.55	18.97	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5147.22	57.14	-16.86	74	48.69	31.89	9.68	33.12	205	288	P	H
		5149.26	52.42	-1.58	54	43.96	31.9	9.68	33.12	205	288	A	H
	*	5210	105.91	-	-	97.71	31.56	9.76	33.12	205	288	P	H
	*	5210	98.01	-	-	89.81	31.56	9.76	33.12	205	288	A	H
		5375.24	57.07	-16.93	74	48.9	31.45	9.83	33.11	205	288	P	H
		5382	49.33	-4.67	54	41.12	31.49	9.83	33.11	205	288	A	H
		5142.46	65.05	-8.95	74	56.62	31.88	9.67	33.12	206	102	P	V
		5143.82	49.06	-4.94	54	40.61	31.89	9.68	33.12	206	102	A	V
	*	5210	102.41	-	-	94.21	31.56	9.76	33.12	206	102	P	V
	*	5210	93.61	-	-	85.41	31.56	9.76	33.12	206	102	A	V
		5391.1	54.47	-19.53	74	46.19	31.55	9.84	33.11	206	102	P	V
		5355.22	45.97	-8.03	54	37.93	31.33	9.82	33.11	206	102	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	43.39	-24.81	68.2	49.24	39.7	15.3	60.85	100	0	P	H
		15630	43.48	-30.52	74	47.18	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	44.16	-24.04	68.2	50.01	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	42.67	-31.33	74	46.37	37.85	18.94	60.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11a (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		5149.5	61.33	-12.67	74	52.87	31.9	9.68	33.12	205	289	P	H
		5150	48.6	-5.4	54	40.13	31.9	9.69	33.12	205	289	A	H
	*	5180	114.14	-	-	105.81	31.72	9.73	33.12	205	289	P	H
	*	5180	106	-	-	97.67	31.72	9.73	33.12	205	289	A	H
													H
													H
		5147.16	66.11	-7.89	74	57.66	31.89	9.68	33.12	205	307	P	V
		5150	51.22	-2.78	54	42.75	31.9	9.69	33.12	205	307	A	V
	*	5180	113.79	-	-	105.46	31.72	9.73	33.12	205	307	P	V
	*	5180	105.62	-	-	97.29	31.72	9.73	33.12	205	307	A	V
													V
													V
802.11a CH 44 5220MHz		5142.48	55.9	-18.1	74	47.47	31.88	9.67	33.12	206	62	P	H
		5146.12	49.43	-4.57	54	40.98	31.89	9.68	33.12	206	62	A	H
	*	5220	116.18	-	-	108.01	31.52	9.77	33.12	206	62	P	H
	*	5220	109.38	-	-	101.21	31.52	9.77	33.12	206	62	A	H
		5386.84	56.15	-17.85	74	47.91	31.52	9.83	33.11	206	62	P	H
		5376.85	47.89	-6.11	54	39.71	31.46	9.83	33.11	206	62	A	H
		5144.82	54.68	-19.32	74	46.23	31.89	9.68	33.12	383	306	P	V
		5144.3	46.54	-7.46	54	38.09	31.89	9.68	33.12	383	306	A	V
	*	5220	115.7	-	-	107.53	31.52	9.77	33.12	383	306	P	V
	*	5220	108.9	-	-	100.73	31.52	9.77	33.12	383	306	A	V
		5378.74	57.93	-16.07	74	49.74	31.47	9.83	33.11	383	306	P	V
		5373.61	48.89	-5.11	54	40.73	31.44	9.83	33.11	383	306	A	V

802.11a CH 48 5240MHz		5147.94	52.76	-21.24	74	44.3	31.9	9.68	33.12	200	59	P	H
		5076.18	45.02	-8.98	54	36.87	31.7	9.57	33.12	200	59	A	H
	*	5240	116.31	-	-	108.21	31.44	9.78	33.12	200	59	P	H
	*	5240	109.57	-	-	101.47	31.44	9.78	33.12	200	59	A	H
		5397.1	56.77	-17.23	74	48.46	31.58	9.84	33.11	200	59	P	H
		5396.02	47.49	-6.51	54	39.18	31.58	9.84	33.11	200	59	A	H
		5079.56	51.47	-22.53	74	43.29	31.72	9.58	33.12	293	310	P	V
		5148.72	43.68	-10.32	54	35.22	31.9	9.68	33.12	293	310	A	V
	*	5240	116.03	-	-	107.93	31.44	9.78	33.12	293	310	P	V
	*	5240	108.84	-	-	100.74	31.44	9.78	33.12	293	310	A	V
		5403.31	56.03	-17.97	74	47.69	31.61	9.84	33.11	293	310	P	V
		5403.85	48.36	-5.64	54	40.02	31.61	9.84	33.11	293	310	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.	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)
802.11a CH 36 5180MHz		5422	54.74	-19.26	74	46.35	31.64	9.86	33.11	205	289	P	H
		5422	45.73	-8.27	54	37.34	31.64	9.86	33.11	205	289	A	H
		10360	52.61	-15.59	68.2	58.57	39.54	15.26	60.76	100	0	P	H
		15540	43.63	-30.37	74	47	38.3	18.9	60.57	100	0	P	H
		5476	57.35	-10.85	68.2	48.75	31.8	9.91	33.11	205	307	P	V
		10360	53.52	-14.68	68.2	59.48	39.54	15.26	60.76	100	0	P	V
		15540	42.87	-31.13	74	46.24	38.3	18.9	60.57	100	0	P	V
													V
802.11a CH 44 5220MHz		5518	56.94	-11.26	68.2	48.25	31.86	9.95	33.12	206	62	P	H
		10440	52.46	-15.74	68.2	58.33	39.7	15.31	60.88	100	0	P	H
		15660	60.83	-13.17	74	64.66	37.7	18.95	60.48	100	339	P	H
		15660	46.69	-7.31	54	50.52	37.7	18.95	60.48	100	339	A	H
		5512	58.46	-9.74	68.2	49.75	31.88	9.94	33.11	383	306	P	V
		10440	56.55	-11.65	68.2	62.42	39.7	15.31	60.88	100	0	P	V
		15660	58.74	-15.26	74	62.57	37.7	18.95	60.48	198	169	P	V
		15660	44.53	-9.47	54	48.36	37.7	18.95	60.48	198	169	A	V
802.11a CH 48 5240MHz		5536	58.28	-9.92	68.2	49.61	31.83	9.96	33.12	200	59	P	H
		10480	51.85	-16.35	68.2	57.79	39.7	15.33	60.97	100	0	P	H
		15720	55.75	-18.25	74	59.67	37.52	18.98	60.42	100	32	P	H
		15720	44.15	-9.85	54	48.07	37.52	18.98	60.42	100	32	A	H
		5536	58.32	-9.88	68.2	49.65	31.83	9.96	33.12	293	310	P	V
		10480	54.41	-13.79	68.2	60.35	39.7	15.33	60.97	100	0	P	V
		15720	58.93	-15.07	74	62.85	37.52	18.98	60.42	100	84	P	V
		15720	44.51	-9.49	54	48.43	37.52	18.98	60.42	100	84	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 (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)
		5148.72	63.58	-10.42	74	55.12	31.9	9.68	33.12	206	282	P	H
		5148.72	49.78	-4.22	54	41.32	31.9	9.68	33.12	206	282	A	H
	*	5180	113.74	-	-	105.41	31.72	9.73	33.12	206	282	P	H
	*	5180	106.11	-	-	97.78	31.72	9.73	33.12	206	282	A	H
802.11ac													H
VHT20													H
CH 36		5148.46	67.31	-6.69	74	58.85	31.9	9.68	33.12	215	306	P	V
5180MHz		5149.76	50.98	-3.02	54	42.52	31.9	9.68	33.12	215	306	A	V
	*	5180	112.73	-	-	104.4	31.72	9.73	33.12	215	306	P	V
	*	5180	104.62	-	-	96.29	31.72	9.73	33.12	215	306	A	V
													V
													V
		5148.46	55.78	-18.22	74	47.32	31.9	9.68	33.12	206	59	P	H
		5145.6	48.32	-5.68	54	39.87	31.89	9.68	33.12	206	59	A	H
	*	5220	114.76	-	-	106.59	31.52	9.77	33.12	206	59	P	H
	*	5220	108.03	-	-	99.86	31.52	9.77	33.12	206	59	A	H
802.11ac		5373.6	55.88	-18.12	74	47.72	31.44	9.83	33.11	206	59	P	H
VHT20		5373.12	46.97	-7.03	54	38.81	31.44	9.83	33.11	206	59	A	H
CH 44		5139.36	52.96	-21.04	74	44.53	31.88	9.67	33.12	384	305	P	V
5220MHz		5146.9	45.71	-8.29	54	37.26	31.89	9.68	33.12	384	305	A	V
	*	5220	115.03	-	-	106.86	31.52	9.77	33.12	384	305	P	V
	*	5220	107.42	-	-	99.25	31.52	9.77	33.12	384	305	A	V
		5379.84	56.33	-17.67	74	48.13	31.48	9.83	33.11	384	305	P	V
		5374.56	47.69	-6.31	54	39.52	31.45	9.83	33.11	384	305	A	V

		5133.9	53.8	-20.2	74	45.39	31.87	9.66	33.12	202	60	P	H
		5150	44.64	-9.36	54	36.17	31.9	9.69	33.12	202	60	A	H
	*	5240	115.83	-	-	107.73	31.44	9.78	33.12	202	60	P	H
	*	5240	108.38	-	-	100.28	31.44	9.78	33.12	202	60	A	H
802.11ac		5397.6	55.76	-18.24	74	47.44	31.59	9.84	33.11	202	60	P	H
VHT20		5395.68	47.15	-6.85	54	38.85	31.57	9.84	33.11	202	60	A	H
CH 48		5131.3	51.94	-22.06	74	43.54	31.86	9.66	33.12	386	307	P	V
5240MHz		5150	43.01	-10.99	54	34.54	31.9	9.69	33.12	386	307	A	V
	*	5240	114.68	-	-	106.58	31.44	9.78	33.12	386	307	P	V
	*	5240	107.69	-	-	99.59	31.44	9.78	33.12	386	307	A	V
		5408.16	55.25	-18.75	74	46.89	31.62	9.85	33.11	386	307	P	V
		5401.92	47.26	-6.74	54	38.93	31.6	9.84	33.11	386	307	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.	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)
		5344	58.33	-9.87	68.2	50.32	31.3	9.82	33.11	206	282	P	H
		5476	57.59	-10.61	68.2	48.99	31.8	9.91	33.11	206	282	P	H
802.11ac		10360	51.8	-16.4	68.2	57.76	39.54	15.26	60.76	100	0	P	H
VHT20		15540	40.71	-33.29	74	44.08	38.3	18.9	60.57	100	0	P	H
CH 36		5344	54.64	-13.56	68.2	46.63	31.3	9.82	33.11	215	306	P	V
5180MHz		5476	55.18	-13.02	68.2	46.58	31.8	9.91	33.11	215	306	P	V
		10360	54.36	-13.84	68.2	60.32	39.54	15.26	60.76	100	0	P	V
		15540	41.26	-32.74	74	44.63	38.3	18.9	60.57	100	0	P	V
		5518	58.07	-10.13	68.2	49.38	31.86	9.95	33.12	206	59	P	H
		10440	53.92	-14.28	68.2	59.79	39.7	15.31	60.88	100	0	P	H
802.11ac		15660	42.21	-31.79	74	46.04	37.7	18.95	60.48	100	0	P	H
VHT20													H
CH 44		5518	61.56	-6.64	68.2	52.87	31.86	9.95	33.12	384	305	P	V
5220MHz		10440	56.67	-11.53	68.2	62.54	39.7	15.31	60.88	100	0	P	V
		15660	44.74	-29.26	74	48.57	37.7	18.95	60.48	100	0	P	V
													V
		5536	55.56	-12.64	68.2	46.89	31.83	9.96	33.12	202	60	P	H
		10480	54.27	-13.93	68.2	60.21	39.7	15.33	60.97	100	0	P	H
802.11ac		15720	43.46	-30.54	74	47.38	37.52	18.98	60.42	100	0	P	H
VHT20													H
CH 48		5536	57.54	-10.66	68.2	48.87	31.83	9.96	33.12	386	307	P	V
5240MHz		10480	56.4	-11.8	68.2	62.34	39.7	15.33	60.97	100	0	P	V
		15720	42.87	-31.13	74	46.79	37.52	18.98	60.42	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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)
		5149.24	63.24	-10.76	74	54.78	31.9	9.68	33.12	191	58	P	H
		5150.02	51.7	-2.3	54	43.23	31.9	9.69	33.12	191	58	A	H
	*	5190	107.47	-	-	99.19	31.66	9.74	33.12	191	58	P	H
	*	5190	98.82	-	-	90.54	31.66	9.74	33.12	191	58	A	H
802.11ac		5363.4	55.25	-18.75	74	47.15	31.38	9.83	33.11	191	58	P	H
VHT40		5358.64	47.83	-6.17	54	39.77	31.35	9.82	33.11	191	58	A	H
CH 38		5146.12	62.46	-11.54	74	54.01	31.89	9.68	33.12	225	307	P	V
5190MHz		5149.24	52.55	-1.45	54	44.09	31.9	9.68	33.12	225	307	A	V
	*	5190	106.95	-	-	98.67	31.66	9.74	33.12	225	307	P	V
	*	5190	98.22	-	-	89.94	31.66	9.74	33.12	225	307	A	V
		5361.72	55.1	-18.9	74	47.02	31.37	9.82	33.11	225	307	P	V
		5354.44	47.13	-6.87	54	39.09	31.33	9.82	33.11	225	307	A	V
		5145.08	61.13	-12.87	74	52.68	31.89	9.68	33.12	201	60	P	H
		5147.94	51.92	-2.08	54	43.46	31.9	9.68	33.12	201	60	A	H
	*	5230	112.66	-	-	104.53	31.48	9.77	33.12	201	60	P	H
	*	5230	104.62	-	-	96.49	31.48	9.77	33.12	201	60	A	H
802.11ac		5383.28	58.66	-15.34	74	50.44	31.5	9.83	33.11	201	60	P	H
VHT40		5398.12	50.95	-3.05	54	42.63	31.59	9.84	33.11	201	60	A	H
CH 46		5150	57.32	-16.68	74	48.85	31.9	9.69	33.12	363	307	P	V
5230MHz		5149.76	48.98	-5.02	54	40.52	31.9	9.68	33.12	363	307	A	V
	*	5230	110.71	-	-	102.58	31.48	9.77	33.12	363	307	P	V
	*	5230	103.98	-	-	95.85	31.48	9.77	33.12	363	307	A	V
		5374.88	60.75	-13.25	74	52.58	31.45	9.83	33.11	363	307	P	V
		5397	51.99	-2.01	54	43.68	31.58	9.84	33.11	363	307	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)

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)
		5770	53.08	-15.12	68.2	43.88	32.14	10.26	33.2	191	58	P	H
		10380	45.98	-22.22	68.2	51.88	39.62	15.27	60.79	100	0	P	H
802.11ac		15570	43.69	-30.31	74	47.17	38.15	18.91	60.54	100	0	P	H
VHT40													H
CH 38		5620	57.27	-10.93	68.2	48.61	31.76	10.05	33.15	225	307	P	V
5190MHz		5770	56	-12.2	68.2	46.8	32.14	10.26	33.2	225	307	P	V
		10380	44.79	-23.41	68.2	50.69	39.62	15.27	60.79	100	0	P	V
		15570	43.75	-30.25	74	47.23	38.15	18.91	60.54	100	0	P	V
		10460	53.28	-14.92	68.2	59.17	39.7	15.32	60.91	100	0	P	H
		15690	41.48	-32.52	74	45.41	37.55	18.97	60.45	100	0	P	H
802.11ac													H
VHT40													H
CH 46		10460	56.24	-11.96	68.2	62.13	39.7	15.32	60.91	100	0	P	V
5230MHz		15690	41.69	-32.31	74	45.62	37.55	18.97	60.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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 VHT80 CH 42 5210MHz		5149.94	58.48	-15.52	74	50.02	31.9	9.68	33.12	208	286	P	H
		5145.18	47.32	-6.68	54	38.87	31.89	9.68	33.12	208	286	A	H
	*	5210	104.72	-	-	96.52	31.56	9.76	33.12	208	286	P	H
	*	5210	96.28	-	-	88.08	31.56	9.76	33.12	208	286	A	H
		5383.04	55.36	-18.64	74	47.14	31.5	9.83	33.11	208	286	P	H
		5383.04	46.99	-7.01	54	38.77	31.5	9.83	33.11	208	286	A	H
		5134.98	59.39	-14.61	74	50.98	31.87	9.66	33.12	201	305	P	V
		5148.58	52.12	-1.88	54	43.66	31.9	9.68	33.12	201	305	A	V
	*	5210	103.18	-	-	94.98	31.56	9.76	33.12	201	305	P	V
	*	5210	95.33	-	-	87.13	31.56	9.76	33.12	201	305	A	V
		5373.94	53.63	-20.37	74	45.47	31.44	9.83	33.11	201	305	P	V
		5386.94	45.05	-8.95	54	36.81	31.52	9.83	33.11	201	305	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.	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)
		5470	54.32	-13.88	68.2	45.75	31.78	9.9	33.11	208	286	P	H
		10420	44.52	-23.68	68.2	50.37	39.7	15.3	60.85	100	0	P	H
802.11ac		15630	43.29	-30.71	74	46.99	37.85	18.94	60.49	100	0	P	H
VHT80													H
CH 42		5476	53.29	-14.91	68.2	44.69	31.8	9.91	33.11	201	305	P	V
5210MHz		10420	44.86	-23.34	68.2	50.71	39.7	15.3	60.85	100	0	P	V
		15630	40.83	-33.17	74	44.53	37.85	18.94	60.49	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11a (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	61.23	-12.77	74	52.77	31.9	9.68	33.12	206	283	P	H
		5145.86	50.52	-3.48	54	42.07	31.89	9.68	33.12	206	283	A	H
	*	5180	117.63	-	-	109.3	31.72	9.73	33.12	206	283	P	H
	*	5180	110.48	-	-	102.15	31.72	9.73	33.12	206	283	A	H
													H
													H
		5148.98	60.61	-13.39	74	52.15	31.9	9.68	33.12	357	313	P	V
		5150	48.27	-5.73	54	39.8	31.9	9.69	33.12	357	313	A	V
	*	5180	114.59	-	-	106.26	31.72	9.73	33.12	357	313	P	V
	*	5180	106.97	-	-	98.64	31.72	9.73	33.12	357	313	A	V
													V
													V
802.11a CH 44 5220MHz		5144.04	59.19	-14.81	74	50.74	31.89	9.68	33.12	199	283	P	H
		5142.48	52.2	-1.8	54	43.77	31.88	9.67	33.12	199	283	A	H
	*	5220	122.61	-	-	114.44	31.52	9.77	33.12	199	283	P	H
	*	5220	115.01	-	-	106.84	31.52	9.77	33.12	199	283	A	H
		5377.93	61.44	-12.56	74	53.25	31.47	9.83	33.11	199	283	P	H
		5383.33	52.61	-1.39	54	44.39	31.5	9.83	33.11	199	283	A	H
		5147.16	56.84	-17.16	74	48.39	31.89	9.68	33.12	240	306	P	V
		5146.12	49.59	-4.41	54	41.14	31.89	9.68	33.12	240	306	A	V
	*	5220	119.16	-	-	110.99	31.52	9.77	33.12	240	306	P	V
	*	5220	111.95	-	-	103.78	31.52	9.77	33.12	240	306	A	V
		5376.31	57.87	-16.13	74	49.69	31.46	9.83	33.11	240	306	P	V
		5376.31	50.34	-3.66	54	42.16	31.46	9.83	33.11	240	306	A	V

802.11a CH 48 5240MHz		5144.3	56.36	-17.64	74	47.91	31.89	9.68	33.12	205	281	P	H
		5148.98	48.92	-5.08	54	40.46	31.9	9.68	33.12	205	281	A	H
	*	5240	122.49	-	-	114.39	31.44	9.78	33.12	205	281	P	H
	*	5240	114.41	-	-	106.31	31.44	9.78	33.12	205	281	A	H
		5354.17	59.82	-14.18	74	51.78	31.33	9.82	33.11	205	281	P	H
		5402.77	52.28	-1.72	54	43.94	31.61	9.84	33.11	205	281	A	H
		5137.8	53.32	-20.68	74	44.89	31.88	9.67	33.12	317	124	P	V
		5085.54	45.49	-8.51	54	37.28	31.74	9.59	33.12	317	124	A	V
	*	5240	116.82	-	-	108.72	31.44	9.78	33.12	317	124	P	V
	*	5240	108.9	-	-	100.8	31.44	9.78	33.12	317	124	A	V
		5401.69	55.85	-18.15	74	47.52	31.6	9.84	33.11	317	124	P	V
		5402.23	47.86	-6.14	54	39.53	31.6	9.84	33.11	317	124	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5344	59.42	-8.78	68.2	51.41	31.3	9.82	33.11	206	283	P	H
		5470	56.3	-11.9	68.2	47.73	31.78	9.9	33.11	206	283	P	H
		10360	49.87	-18.33	68.2	55.83	39.54	15.26	60.76	100	0	P	H
		15540	44.73	-29.27	74	48.1	38.3	18.9	60.57	100	0	P	H
		5332	54.22	-13.98	68.2	46.22	31.3	9.81	33.11	357	313	P	V
		5476	55.17	-13.03	68.2	46.57	31.8	9.91	33.11	357	313	P	V
		10360	53.48	-14.72	68.2	59.44	39.54	15.26	60.76	100	0	P	V
		15540	44.44	-29.56	74	47.81	38.3	18.9	60.57	100	0	P	V
802.11a CH 44 5220MHz		5506	58.25	-9.95	68.2	49.53	31.89	9.94	33.11	199	283	P	H
		10440	53.31	-14.89	68.2	59.18	39.7	15.31	60.88	100	0	P	H
		15660	57.94	-16.06	74	61.77	37.7	18.95	60.48	192	35	P	H
		15660	46.65	-7.35	54	50.48	37.7	18.95	60.48	192	35	A	H
		5518	59.14	-9.06	68.2	50.45	31.86	9.95	33.12	240	306	P	V
		10440	55.24	-12.96	68.2	61.11	39.7	15.31	60.88	100	0	P	V
		15660	58.69	-15.31	74	62.52	37.7	18.95	60.48	209	349	P	V
		15660	48.17	-5.83	54	52	37.7	18.95	60.48	209	349	A	V
802.11a CH 48 5240MHz		5536	62.39	-5.81	68.2	53.72	31.83	9.96	33.12	205	281	P	H
		10480	52.58	-15.62	68.2	58.52	39.7	15.33	60.97	100	0	P	H
		15720	57.55	-16.45	74	61.47	37.52	18.98	60.42	104	31	P	H
		15720	46.92	-7.08	54	50.84	37.52	18.98	60.42	104	31	A	H
		5536	57.94	-10.26	68.2	49.27	31.83	9.96	33.12	317	124	P	V
		10480	56.86	-11.34	68.2	62.8	39.7	15.33	60.97	100	0	P	V
		15720	59.01	-14.99	74	62.93	37.52	18.98	60.42	100	49	P	V
		15720	47.7	-6.3	54	51.62	37.52	18.98	60.42	100	49	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 (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5150.02	66.28	-7.72	74	57.81	31.9	9.69	33.12	209	285	P	H
		5149.5	52.53	-1.47	54	44.07	31.9	9.68	33.12	209	285	A	H
	*	5180	117.13	-	-	108.8	31.72	9.73	33.12	209	285	P	H
	*	5180	108.8	-	-	100.47	31.72	9.73	33.12	209	285	A	H
802.11ac													H
VHT20													H
CH 36		5148.46	58.92	-15.08	74	50.46	31.9	9.68	33.12	340	121	P	V
5180MHz		5150	48.35	-5.65	54	39.88	31.9	9.69	33.12	340	121	A	V
	*	5180	114.43	-	-	106.1	31.72	9.73	33.12	340	121	P	V
	*	5180	106.08	-	-	97.75	31.72	9.73	33.12	340	121	A	V
													V
													V
		5149.76	60.39	-13.61	74	51.93	31.9	9.68	33.12	200	282	P	H
		5150	51.23	-2.77	54	42.76	31.9	9.69	33.12	200	282	A	H
	*	5220	121.47	-	-	113.3	31.52	9.77	33.12	200	282	P	H
	*	5220	113.77	-	-	105.6	31.52	9.77	33.12	200	282	A	H
802.11ac		5382.96	60.52	-13.48	74	52.3	31.5	9.83	33.11	200	282	P	H
VHT20		5373.36	51.59	-2.41	54	43.43	31.44	9.83	33.11	200	282	A	H
CH 44		5146.64	58.22	-15.78	74	49.77	31.89	9.68	33.12	336	127	P	V
5220MHz		5147.94	46.53	-7.47	54	38.07	31.9	9.68	33.12	336	127	A	V
	*	5220	118.07	-	-	109.9	31.52	9.77	33.12	336	127	P	V
	*	5220	110.27	-	-	102.1	31.52	9.77	33.12	336	127	A	V
		5458.8	54.82	-19.18	74	46.3	31.74	9.89	33.11	336	127	P	V
		5376	46.31	-7.69	54	38.13	31.46	9.83	33.11	336	127	A	V

		5140.92	56.26	-17.74	74	47.83	31.88	9.67	33.12	205	281	P	H
		5148.98	48.88	-5.12	54	40.42	31.9	9.68	33.12	205	281	A	H
	*	5240	121.75	-	-	113.65	31.44	9.78	33.12	205	281	P	H
	*	5240	113.72	-	-	105.62	31.44	9.78	33.12	205	281	A	H
802.11ac		5403.58	59.22	-14.78	74	50.88	31.61	9.84	33.11	205	281	P	H
VHT20		5397.91	52.23	-1.77	54	43.91	31.59	9.84	33.11	205	281	A	H
CH 48		5139.62	53.29	-20.71	74	44.86	31.88	9.67	33.12	317	124	P	V
5240MHz		5085.8	45.21	-8.79	54	37	31.74	9.59	33.12	317	124	A	V
	*	5240	118.21	-	-	110.11	31.44	9.78	33.12	317	124	P	V
	*	5240	110.3	-	-	102.2	31.44	9.78	33.12	317	124	A	V
		5406	56.54	-17.46	74	48.19	31.61	9.85	33.11	317	124	P	V
		5396.16	46.84	-7.16	54	38.53	31.58	9.84	33.11	317	124	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5344	57.95	-10.25	68.2	49.94	31.3	9.82	33.11	209	285	P	H
		5470	57.05	-11.15	68.2	48.48	31.78	9.9	33.11	209	285	P	H
802.11ac		10360	50.37	-17.83	68.2	56.33	39.54	15.26	60.76	100	0	P	H
VHT20		15540	42.88	-31.12	74	46.25	38.3	18.9	60.57	100	0	P	H
CH 36		5344	55.47	-12.73	68.2	47.46	31.3	9.82	33.11	340	121	P	V
5180MHz		5470	54.36	-13.84	68.2	45.79	31.78	9.9	33.11	340	121	P	V
		10360	52.55	-15.65	68.2	58.51	39.54	15.26	60.76	100	0	P	V
		15540	43.59	-30.41	74	46.96	38.3	18.9	60.57	100	0	P	V
		5518	60.43	-7.77	68.2	51.74	31.86	9.95	33.12	200	282	P	H
		10440	55.29	-12.91	68.2	61.16	39.7	15.31	60.88	100	0	P	H
802.11ac		15660	44.07	-29.93	74	47.9	37.7	18.95	60.48	100	0	P	H
VHT20													H
CH 44		5518	57.69	-10.51	68.2	49	31.86	9.95	33.12	336	127	P	V
5220MHz		10440	57.04	-11.16	68.2	62.91	39.7	15.31	60.88	100	0	P	V
		15660	43.98	-30.02	74	47.81	37.7	18.95	60.48	100	0	P	V
													V
		5518	60.43	-7.77	68.2	51.74	31.86	9.95	33.12	200	282	P	H
		10480	54.33	-13.87	68.2	60.27	39.7	15.33	60.97	100	0	P	H
802.11ac		15720	42.12	-31.88	74	46.04	37.52	18.98	60.42	100	0	P	H
VHT20													H
CH 48		5518	57.69	-10.51	68.2	49	31.86	9.95	33.12	336	127	P	V
5240MHz		10480	57.86	-10.34	68.2	63.8	39.7	15.33	60.97	100	0	P	V
		15720	42.97	-31.03	74	46.89	37.52	18.98	60.42	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5149.24	60.67	-13.33	74	52.21	31.9	9.68	33.12	219	282	P	H
		5147.94	52.45	-1.55	54	43.99	31.9	9.68	33.12	219	282	P	H
	*	5190	111.19	-	-	102.91	31.66	9.74	33.12	219	282	P	H
	*	5190	102.26	-	-	93.98	31.66	9.74	33.12	219	282	A	H
802.11ac		5363.12	58.08	-15.92	74	49.98	31.38	9.83	33.11	219	282	P	H
VHT40		5358.36	50.53	-3.47	54	42.47	31.35	9.82	33.11	219	282	A	H
CH 38		5139.62	52.75	-21.25	74	44.32	31.88	9.67	33.12	306	123	P	V
5190MHz		5149.5	47.48	-6.52	54	39.02	31.9	9.68	33.12	306	123	A	V
	*	5190	108.74	-	-	100.46	31.66	9.74	33.12	306	123	P	V
	*	5190	99.19	-	-	90.91	31.66	9.74	33.12	306	123	A	V
		5351.36	54.89	-19.11	74	46.87	31.31	9.82	33.11	306	123	P	V
		5356.12	45.95	-8.05	54	37.9	31.34	9.82	33.11	306	123	A	V
		5137.8	54.69	-19.31	74	46.26	31.88	9.67	33.12	215	282	P	H
		5147.94	47.03	-6.97	54	38.57	31.9	9.68	33.12	215	282	A	H
	*	5230	113.34	-	-	105.21	31.48	9.77	33.12	215	282	P	H
	*	5230	105.19	-	-	97.06	31.48	9.77	33.12	215	282	A	H
802.11ac		5398.12	61.84	-12.16	74	53.52	31.59	9.84	33.11	215	282	P	H
VHT40		5393.36	52.33	-1.67	54	44.04	31.56	9.84	33.11	215	282	A	H
CH 46		5085.28	52.25	-21.75	74	44.04	31.74	9.59	33.12	317	122	P	V
5230MHz		5085.02	44.83	-9.17	54	36.62	31.74	9.59	33.12	317	122	A	V
	*	5230	110.38	-	-	102.25	31.48	9.77	33.12	317	122	P	V
	*	5230	102.04	-	-	93.91	31.48	9.77	33.12	317	122	A	V
		5396.16	56.74	-17.26	74	48.43	31.58	9.84	33.11	317	122	P	V
		5396.16	47.86	-6.14	54	39.55	31.58	9.84	33.11	317	122	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)

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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5620	55.06	-13.14	68.2	46.4	31.76	10.05	33.15	219	282	P	H
		5764	54.92	-13.28	68.2	45.73	32.13	10.25	33.19	219	282	P	H
802.11ac		10380	44.09	-24.11	68.2	49.99	39.62	15.27	60.79	100	0	P	H
VHT40		15570	45.05	-28.95	74	48.53	38.15	18.91	60.54	100	0	P	H
CH 38		5620	53.88	-14.32	68.2	45.22	31.76	10.05	33.15	306	123	P	V
5190MHz		10380	43.32	-24.88	68.2	49.22	39.62	15.27	60.79	100	0	P	V
		15570	41.8	-32.2	74	45.28	38.15	18.91	60.54	100	0	P	V
													V
		5464	56.89	-11.31	68.2	48.34	31.76	9.9	33.11	215	282	P	H
		10460	47.17	-21.03	68.2	53.06	39.7	15.32	60.91	100	0	P	H
802.11ac		15690	42.98	-31.02	74	46.91	37.55	18.97	60.45	100	0	P	H
VHT40													H
CH 46		5464	54.1	-14.1	68.2	45.55	31.76	9.9	33.11	317	122	P	V
5230MHz		10460	47.11	-21.09	68.2	53	39.7	15.32	60.91	100	0	P	V
		15690	42.54	-31.46	74	46.47	37.55	18.97	60.45	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5146.88	69.54	-4.46	74	61.09	31.89	9.68	33.12	200	281	P	H
		5148.24	52.39	-1.61	54	43.93	31.9	9.68	33.12	200	281	A	H
	*	5210	108.18	-	-	99.98	31.56	9.76	33.12	200	281	P	H
	*	5210	100.41	-	-	92.21	31.56	9.76	33.12	200	281	A	H
		5372.9	56.68	-17.32	74	48.52	31.44	9.83	33.11	200	281	P	H
		5387.98	49.1	-4.9	54	40.84	31.53	9.84	33.11	200	281	A	H
		5141.1	56.48	-17.52	74	48.05	31.88	9.67	33.12	318	120	P	V
		5140.42	47.18	-6.82	54	38.75	31.88	9.67	33.12	318	120	A	V
	*	5220	105.07	-	-	96.9	31.52	9.77	33.12	318	120	P	V
	*	5220	96.97	-	-	88.8	31.52	9.77	33.12	318	120	A	V
		5381.74	52.49	-21.51	74	44.28	31.49	9.83	33.11	318	120	P	V
		5356.52	44.48	-9.52	54	36.43	31.34	9.82	33.11	318	120	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	44.85	-23.35	68.2	50.7	39.7	15.3	60.85	100	0	P	H
		15630	43.22	-30.78	74	46.92	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	45.18	-23.02	68.2	51.03	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	43.84	-30.16	74	47.54	37.85	18.94	60.49	100	0	P	V
													V
													V

Remark

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

Band 1 - 5150~5250MHz

WIFI 802.11a (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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.68	65.57	-8.43	74	57.11	31.9	9.68	33.12	206	281	P	H
		5150	52.11	-1.89	54	43.64	31.9	9.69	33.12	206	281	A	H
	*	5180	118.82	-	-	110.49	31.72	9.73	33.12	206	281	P	H
	*	5180	110.93	-	-	102.6	31.72	9.73	33.12	206	281	A	H
													H
													H
		5149.24	66.92	-7.08	74	58.46	31.9	9.68	33.12	100	305	P	V
		5150	51.85	-2.15	54	43.38	31.9	9.69	33.12	100	305	A	V
	*	5180	115.22	-	-	106.89	31.72	9.73	33.12	100	305	P	V
	*	5180	107.53	-	-	99.2	31.72	9.73	33.12	100	305	A	V
													V
													V
802.11a CH 44 5220MHz		5145.6	62.31	-11.69	74	53.86	31.89	9.68	33.12	200	279	P	H
		5148.46	52.55	-1.45	54	44.09	31.9	9.68	33.12	200	279	A	H
	*	5220	122.07	-	-	113.9	31.52	9.77	33.12	200	279	P	H
	*	5220	113.92	-	-	105.75	31.52	9.77	33.12	200	279	A	H
		5383.33	60.44	-13.56	74	52.22	31.5	9.83	33.11	200	279	P	H
		5383.33	51.55	-2.45	54	43.33	31.5	9.83	33.11	200	279	A	H
		5148.98	60.97	-13.03	74	52.51	31.9	9.68	33.12	100	304	P	V
		5143.78	49.82	-4.18	54	41.37	31.89	9.68	33.12	100	304	A	V
	*	5220	118.66	-	-	110.49	31.52	9.77	33.12	100	304	P	V
	*	5220	110.19	-	-	102.02	31.52	9.77	33.12	100	304	A	V
		5379.01	56.14	-17.86	74	47.95	31.47	9.83	33.11	100	304	P	V
		5379.01	47.48	-6.52	54	39.29	31.47	9.83	33.11	100	304	A	V

802.11a CH 48 5240MHz		5148.46	57.71	-16.29	74	49.25	31.9	9.68	33.12	214	281	P	H
		5149.5	48.76	-5.24	54	40.3	31.9	9.68	33.12	214	281	A	H
	*	5240	123.24	-	-	115.14	31.44	9.78	33.12	214	281	P	H
	*	5240	115.46	-	-	107.36	31.44	9.78	33.12	214	281	A	H
		5407.09	60.57	-13.43	74	52.22	31.61	9.85	33.11	214	281	P	H
		5406.01	52.81	-1.19	54	44.46	31.61	9.85	33.11	214	281	A	H
		5149.24	54.8	-19.2	74	46.34	31.9	9.68	33.12	104	305	P	V
		5148.2	46.5	-7.5	54	38.04	31.9	9.68	33.12	104	305	A	V
	*	5240	119.09	-	-	110.99	31.44	9.78	33.12	104	305	P	V
	*	5240	111.2	-	-	103.1	31.44	9.78	33.12	104	305	A	V
		5392.51	56.7	-17.3	74	48.41	31.56	9.84	33.11	104	305	P	V
		5392.24	47.49	-6.51	54	39.21	31.55	9.84	33.11	104	305	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5350.01	58.87	-15.13	74	50.86	31.3	9.82	33.11	206	281	P	H
		5350.01	49.79	-4.21	54	41.78	31.3	9.82	33.11	206	281	A	H
		10360	52.39	-15.81	68.2	58.35	39.54	15.26	60.76	100	0	P	H
		15540	45.06	-28.94	74	48.43	38.3	18.9	60.57	100	0	P	H
		10360	54.42	-13.78	68.2	60.38	39.54	15.26	60.76	100	0	P	V
		15540	44.52	-29.48	74	47.89	38.3	18.9	60.57	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	54.41	-13.79	68.2	60.28	39.7	15.31	60.88	100	0	P	H
		15660	59.23	-14.77	74	63.06	37.7	18.95	60.48	100	0	P	H
		15660	46.58	-7.42	54	50.41	37.7	18.95	60.48	100	0	A	H
													H
		10440	55.97	-12.23	68.2	61.84	39.7	15.31	60.88	100	0	P	V
		15660	58.86	-15.14	74	62.69	37.7	18.95	60.48	178	40	P	V
		15660	45.97	-8.03	54	49.8	37.7	18.95	60.48	178	40	A	V
													V
802.11a CH 48 5240MHz		5524	60.65	-7.55	68.2	51.97	31.85	9.95	33.12	100	0	P	H
		10480	55.49	-12.71	68.2	61.43	39.7	15.33	60.97	100	0	P	H
		15720	57.03	-16.97	74	60.95	37.52	18.98	60.42	107	31	P	H
		15720	44.1	-9.9	54	48.02	37.52	18.98	60.42	107	31	A	H
		5536	55.98	-12.22	68.2	47.31	31.83	9.96	33.12	100	0	P	V
		10480	55.77	-12.43	68.2	61.71	39.7	15.33	60.97	100	0	P	V
		15720	54.86	-19.14	74	58.78	37.52	18.98	60.42	198	58	P	V
		15720	42.19	-11.81	54	46.11	37.52	18.98	60.42	198	58	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 (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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5148.98	67.58	-6.42	74	59.12	31.9	9.68	33.12	207	281	P	H
		5148.72	52.16	-1.84	54	43.7	31.9	9.68	33.12	207	281	A	H
	*	5180	118.24	-	-	109.91	31.72	9.73	33.12	207	281	P	H
	*	5180	109.19	-	-	100.86	31.72	9.73	33.12	207	281	A	H
802.11ac													H
VHT20													H
CH 36		5147.68	60.57	-13.43	74	52.11	31.9	9.68	33.12	100	306	P	V
5180MHz		5148.46	48.59	-5.41	54	40.13	31.9	9.68	33.12	100	306	A	V
	*	5180	115.91	-	-	107.58	31.72	9.73	33.12	100	306	P	V
	*	5180	106.11	-	-	97.78	31.72	9.73	33.12	100	306	A	V
													V
													V
		5145.86	64.61	-9.39	74	56.16	31.89	9.68	33.12	200	281	P	H
		5148.2	52.73	-1.27	54	44.27	31.9	9.68	33.12	200	281	A	H
	*	5220	122.83	-	-	114.66	31.52	9.77	33.12	200	281	P	H
	*	5220	114.82	-	-	106.65	31.52	9.77	33.12	200	281	A	H
802.11ac		5373.6	60.33	-13.67	74	52.17	31.44	9.83	33.11	200	281	P	H
VHT20		5373.36	51.89	-2.11	54	43.73	31.44	9.83	33.11	200	281	A	H
CH 44		5133.64	57.63	-16.37	74	49.22	31.87	9.66	33.12	100	304	P	V
5220MHz		5138.58	49.59	-4.41	54	41.16	31.88	9.67	33.12	100	304	A	V
	*	5220	119	-	-	110.83	31.52	9.77	33.12	100	304	P	V
	*	5220	110.6	-	-	102.43	31.52	9.77	33.12	100	304	A	V
		5379.36	57.39	-16.61	74	49.19	31.48	9.83	33.11	100	304	P	V
		5381.04	47.32	-6.68	54	39.11	31.49	9.83	33.11	100	304	A	V

		5148.72	59.47	-14.53	74	51.01	31.9	9.68	33.12	213	281	P	H
		5148.72	48.78	-5.22	54	40.32	31.9	9.68	33.12	213	281	A	H
	*	5240	123.15	-	-	115.05	31.44	9.78	33.12	213	281	P	H
	*	5240	115.11	-	-	107.01	31.44	9.78	33.12	213	281	A	H
802.11ac		5350.32	60.98	-13.02	74	52.97	31.3	9.82	33.11	213	281	P	H
VHT20		5403.36	52.15	-1.85	54	43.81	31.61	9.84	33.11	213	281	A	H
CH 48		5144.82	54.24	-19.76	74	45.79	31.89	9.68	33.12	100	305	P	V
5240MHz		5150	46.51	-7.49	54	38.04	31.9	9.69	33.12	100	305	A	V
	*	5240	119.09	-	-	110.99	31.44	9.78	33.12	100	305	P	V
	*	5240	110.67	-	-	102.57	31.44	9.78	33.12	100	305	A	V
		5407.2	57.59	-16.41	74	49.24	31.61	9.85	33.11	100	305	P	V
		5406	47.5	-6.5	54	39.15	31.61	9.85	33.11	100	305	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5476	57.64	-10.56	68.2	49.04	31.8	9.91	33.11	100	0	P	H
		10360	49.87	-18.33	68.2	55.83	39.54	15.26	60.76	100	0	P	H
802.11ac		15540	43.88	-30.12	74	47.25	38.3	18.9	60.57	100	0	P	H
VHT20													H
CH 36		5476	55.91	-12.29	68.2	47.31	31.8	9.91	33.11	100	0	P	V
5180MHz		10360	51.86	-16.34	68.2	57.82	39.54	15.26	60.76	100	0	P	V
		15540	43.5	-30.5	74	46.87	38.3	18.9	60.57	100	0	P	V
													V
		5518	62.07	-6.13	68.2	53.38	31.86	9.95	33.12	100	0	P	H
		10440	54.92	-13.28	68.2	60.79	39.7	15.31	60.88	100	0	P	H
802.11ac		15660	43.38	-30.62	74	47.21	37.7	18.95	60.48	100	0	P	H
VHT20													H
CH 44		5518	59.28	-8.92	68.2	50.59	31.86	9.95	33.12	100	0	P	V
5220MHz		10440	56.26	-11.94	68.2	62.13	39.7	15.31	60.88	100	0	P	V
		15660	44.82	-29.18	74	48.65	37.7	18.95	60.48	100	0	P	V
													V
		5542	62.41	-5.79	68.2	53.74	31.82	9.97	33.12	100	0	P	H
		10480	55.63	-12.57	68.2	61.57	39.7	15.33	60.97	100	0	P	H
802.11ac		15720	44.24	-29.76	74	48.16	37.52	18.98	60.42	100	0	P	H
VHT20													H
CH 48		5542	58.86	-9.34	68.2	50.19	31.82	9.97	33.12	100	0	P	V
5240MHz		10480	58.64	-9.56	68.2	64.58	39.7	15.33	60.97	100	0	P	V
		15720	43.71	-30.29	74	47.63	37.52	18.98	60.42	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 38 5190MHz		5146.64	61.55	-12.45	74	53.1	31.89	9.68	33.12	218	281	P	H
		5148.72	52.83	-1.17	54	44.37	31.9	9.68	33.12	218	281	A	H
	*	5190	112.83	-	-	104.55	31.66	9.74	33.12	218	281	P	H
	*	5190	103.44	-	-	95.16	31.66	9.74	33.12	218	281	A	H
		5358.64	59.24	-14.76	74	51.18	31.35	9.82	33.11	218	281	P	H
		5358.36	51.27	-2.73	54	43.21	31.35	9.82	33.11	218	281	A	H
		5138.58	54.68	-19.32	74	46.25	31.88	9.67	33.12	100	304	P	V
		5143.52	48.92	-5.08	54	40.47	31.89	9.68	33.12	100	304	A	V
	*	5190	107.98	-	-	99.7	31.66	9.74	33.12	100	304	P	V
	*	5190	99.88	-	-	91.6	31.66	9.74	33.12	100	304	A	V
		5353.88	53.09	-20.91	74	45.06	31.32	9.82	33.11	100	304	P	V
		5363.68	45.47	-8.53	54	37.37	31.38	9.83	33.11	100	304	A	V
802.11ac VHT40 CH 46 5230MHz		5142.74	55.69	-18.31	74	47.25	31.89	9.67	33.12	215	281	P	H
		5146.38	47.41	-6.59	54	38.96	31.89	9.68	33.12	215	281	A	H
	*	5230	114.81	-	-	106.68	31.48	9.77	33.12	215	281	P	H
	*	5230	106.11	-	-	97.98	31.48	9.77	33.12	215	281	A	H
		5398.4	60.39	-13.61	74	52.07	31.59	9.84	33.11	215	281	P	H
		5383.28	52.5	-1.5	54	44.28	31.5	9.83	33.11	215	281	A	H
		5149.5	54.1	-19.9	74	45.64	31.9	9.68	33.12	100	304	P	V
		5143.52	45.93	-8.07	54	37.48	31.89	9.68	33.12	100	304	A	V
	*	5230	110.75	-	-	102.62	31.48	9.77	33.12	100	304	P	V
	*	5230	101.89	-	-	93.76	31.48	9.77	33.12	100	304	A	V
		5399.24	56.36	-17.64	74	48.03	31.6	9.84	33.11	100	304	P	V
		5379.08	47.61	-6.39	54	39.42	31.47	9.83	33.11	100	304	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)

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+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10380	45.76	-22.44	68.2	51.66	39.62	15.27	60.79	100	0	P	H
		15570	45.22	-28.78	74	48.7	38.15	18.91	60.54	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	45.39	-22.81	68.2	51.29	39.62	15.27	60.79	100	0	P	V
5190MHz		15570	45.11	-28.89	74	48.59	38.15	18.91	60.54	100	0	P	V
													V
													V
		5476	56.8	-11.4	68.2	48.2	31.8	9.91	33.11	100	0	P	H
		10460	46.47	-21.73	68.2	52.36	39.7	15.32	60.91	100	0	P	H
802.11ac		15690	43.31	-30.69	74	47.24	37.55	18.97	60.45	100	0	P	H
VHT40													H
CH 46		5470	53.06	-15.14	68.2	44.49	31.78	9.9	33.11	100	0	P	V
5230MHz		10460	48.07	-20.13	68.2	53.96	39.7	15.32	60.91	100	0	P	V
		15690	43.84	-30.16	74	47.77	37.55	18.97	60.45	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5149.6	58.08	-15.92	74	49.62	31.9	9.68	33.12	200	279	P	H
		5148.58	52.83	-1.17	54	44.37	31.9	9.68	33.12	200	279	A	H
	*	5210	108.17	-	-	99.97	31.56	9.76	33.12	200	279	P	H
	*	5210	100.62	-	-	92.42	31.56	9.76	33.12	200	279	A	H
		5358.08	57.53	-16.47	74	49.47	31.35	9.82	33.11	200	279	P	H
		5383.56	48.97	-5.03	54	40.75	31.5	9.83	33.11	200	279	A	H
		5139.4	59.59	-14.41	74	51.16	31.88	9.67	33.12	100	305	P	V
		5143.82	48.23	-5.77	54	39.78	31.89	9.68	33.12	100	305	A	V
	*	5210	104.43	-	-	96.23	31.56	9.76	33.12	100	305	P	V
	*	5210	96.75	-	-	88.55	31.56	9.76	33.12	100	305	A	V
		5391.36	53.88	-20.12	74	45.6	31.55	9.84	33.11	100	305	P	V
		5380.96	44.74	-9.26	54	36.53	31.49	9.83	33.11	100	305	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	43.52	-24.68	68.2	49.37	39.7	15.3	60.85	100	0	P	H
		15630	43.68	-30.32	74	47.38	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	44.45	-23.75	68.2	50.3	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	44.13	-29.87	74	47.83	37.85	18.94	60.49	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

WIFI 802.11ac 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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		91.11	29.81	-13.69	43.5	46.05	14.76	1.33	32.33	-	-	P	H
		182.29	26.47	-17.03	43.5	42.12	14.71	1.89	32.25	-	-	P	H
		269.59	32.23	-13.77	46	43.37	18.88	2.18	32.2	-	-	P	H
		618.79	29.11	-16.89	46	32.34	25.68	3.28	32.19	-	-	P	H
		884.57	32.2	-13.8	46	30.54	29.09	4	31.43	-	-	P	H
		937.92	33.44	-12.56	46	30.46	29.85	4.13	31	100	0	P	H
													H
													H
													H
													H
													H
													H
		44.55	35.69	-4.31	40	50.33	16.8	0.93	32.37	100	0	P	V
		91.11	26.12	-17.38	43.5	42.36	14.76	1.33	32.33	-	-	P	V
		265.71	27.43	-18.57	46	38.31	19.16	2.16	32.2	-	-	P	V
		584.84	28.18	-17.82	46	31.85	25.35	3.18	32.2	-	-	P	V
		807.94	31.08	-14.92	46	30.97	28.17	3.78	31.84	-	-	P	V
		959.26	33.46	-12.54	46	29.11	30.97	4.18	30.8	-	-	P	V
													V
													V
													V
													V
													V
													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	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)
		5149.24	64.35	-9.65	74	55.89	31.9	9.68	33.12	200	288	P	H
		5150	48.17	-5.83	54	39.7	31.9	9.69	33.12	200	288	A	H
	*	5180	113.54	-	-	105.21	31.72	9.73	33.12	200	288	P	H
	*	5180	103.22	-	-	94.89	31.72	9.73	33.12	200	288	A	H
802.11ac													H
VHT20													H
CH 36		5144.3	64.51	-9.49	74	56.06	31.89	9.68	33.12	232	300	P	V
5180MHz		5150	51.11	-2.89	54	42.64	31.9	9.69	33.12	232	300	A	V
	*	5180	114.76	-	-	106.43	31.72	9.73	33.12	232	300	P	V
	*	5180	106.35	-	-	98.02	31.72	9.73	33.12	232	300	A	V
													V
													V
		5148.98	61.03	-12.97	74	52.57	31.9	9.68	33.12	202	280	P	H
		5146.64	46.26	-7.74	54	37.81	31.89	9.68	33.12	202	280	A	H
	*	5220	119.07	-	-	110.9	31.52	9.77	33.12	202	280	P	H
	*	5220	111.3	-	-	103.13	31.52	9.77	33.12	202	280	A	H
802.11ac		5384.88	59.69	-14.31	74	51.46	31.51	9.83	33.11	202	280	P	H
VHT20		5384.16	50.15	-3.85	54	41.93	31.5	9.83	33.11	202	280	A	H
CH 44		5149.5	61.46	-12.54	74	53	31.9	9.68	33.12	198	304	P	V
5220MHz		5147.94	47.51	-6.49	54	39.05	31.9	9.68	33.12	198	304	A	V
	*	5220	118.29	-	-	110.12	31.52	9.77	33.12	198	304	P	V
	*	5220	110.73	-	-	102.56	31.52	9.77	33.12	198	304	A	V
		5388.72	57.59	-16.41	74	49.33	31.53	9.84	33.11	198	304	P	V
		5388.24	48.94	-5.06	54	40.68	31.53	9.84	33.11	198	304	A	V

		5146.38	54.83	-19.17	74	46.38	31.89	9.68	33.12	201	285	P	H
		5150	44.37	-9.63	54	35.9	31.9	9.69	33.12	201	285	A	H
	*	5240	119.16	-	-	111.06	31.44	9.78	33.12	201	285	P	H
	*	5240	111.62	-	-	103.52	31.44	9.78	33.12	201	285	A	H
802.11ac		5400	59.58	-14.42	74	51.25	31.6	9.84	33.11	201	285	P	H
VHT20		5396.64	49.41	-4.59	54	41.1	31.58	9.84	33.11	201	285	A	H
CH 48		5146.12	54.97	-19.03	74	46.52	31.89	9.68	33.12	208	302	P	V
5240MHz		5150	44.65	-9.35	54	36.18	31.9	9.69	33.12	208	302	A	V
	*	5240	118.22	-	-	110.12	31.44	9.78	33.12	208	302	P	V
	*	5240	110.28	-	-	102.18	31.44	9.78	33.12	208	302	A	V
		5403.6	58.71	-15.29	74	50.37	31.61	9.84	33.11	208	302	P	V
		5397.84	48.17	-5.83	54	39.85	31.59	9.84	33.11	208	302	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.	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)
		5344	56.67	-11.53	68.2	48.66	31.3	9.82	33.11	200	288	P	H
		10360	51.57	-16.63	68.2	57.53	39.54	15.26	60.76	100	0	P	H
802.11ac		15540	45.63	-28.37	74	49	38.3	18.9	60.57	100	0	P	H
VHT20													H
CH 36		5344	57.47	-10.73	68.2	49.46	31.3	9.82	33.11	232	300	P	V
5180MHz		10360	53.71	-14.49	68.2	59.67	39.54	15.26	60.76	100	0	P	V
		15540	45.49	-28.51	74	48.86	38.3	18.9	60.57	100	0	P	V
													V
		5510	58.22	-9.98	68.2	49.51	31.88	9.94	33.11	202	280	P	H
		10440	53.74	-14.46	68.2	59.61	39.7	15.31	60.88	100	0	P	H
802.11ac		15660	54.49	-19.51	74	58.32	37.7	18.95	60.48	209	335	P	H
VHT20		15660	44.2	-9.8	54	48.03	37.7	18.95	60.48	209	335	A	H
CH 44		5510	60.39	-7.81	68.2	51.68	31.88	9.94	33.11	198	304	P	V
5220MHz		10440	55.57	-12.63	68.2	61.44	39.7	15.31	60.88	100	0	P	V
		15660	56.65	-17.35	74	60.48	37.7	18.95	60.48	100	55	P	V
		15660	44.43	-9.57	54	48.26	37.7	18.95	60.48	100	55	A	V
		5532	58.83	-9.37	68.2	50.15	31.84	9.96	33.12	201	285	P	H
		10480	53.94	-14.26	68.2	59.88	39.7	15.33	60.97	100	0	P	H
802.11ac		15720	53.07	-20.93	74	56.99	37.52	18.98	60.42	211	335	P	H
VHT20		15720	42.66	-11.34	54	46.58	37.52	18.98	60.42	211	335	A	H
CH 48		5532	58.28	-9.92	68.2	49.6	31.84	9.96	33.12	208	302	P	V
5240MHz		10480	56.87	-11.33	68.2	62.81	39.7	15.33	60.97	100	0	P	V
		15720	53.36	-20.64	74	57.28	37.52	18.98	60.42	100	55	P	V
		15720	42.45	-11.55	54	46.37	37.52	18.98	60.42	100	55	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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 VHT40 CH 38 5190MHz		5148.98	61.8	-12.2	74	53.34	31.9	9.68	33.12	206	285	P	H
		5150	50.57	-3.43	54	42.1	31.9	9.69	33.12	206	285	A	H
	*	5190	109.27	-	-	100.99	31.66	9.74	33.12	206	285	P	H
	*	5190	102.02	-	-	93.74	31.66	9.74	33.12	206	285	A	H
		5355	57.62	-16.38	74	49.58	31.33	9.82	33.11	206	285	P	H
		5356.96	49.39	-4.61	54	41.34	31.34	9.82	33.11	206	285	A	H
		5150	61.93	-12.07	74	53.46	31.9	9.69	33.12	218	309	P	V
		5148.46	51.67	-2.33	54	43.21	31.9	9.68	33.12	218	309	A	V
	*	5190	109.03	-	-	100.75	31.66	9.74	33.12	218	309	P	V
	*	5190	100.66	-	-	92.38	31.66	9.74	33.12	218	309	A	V
		5360.32	56.6	-17.4	74	48.53	31.36	9.82	33.11	218	309	P	V
		5357.24	47.65	-6.35	54	39.6	31.34	9.82	33.11	218	309	A	V
802.11ac VHT40 CH 46 5230MHz		5150	57.97	-16.03	74	49.5	31.9	9.69	33.12	204	283	P	H
		5146.12	47.93	-6.07	54	39.48	31.89	9.68	33.12	204	283	A	H
	*	5230	113	-	-	104.87	31.48	9.77	33.12	204	283	P	H
	*	5230	106.41	-	-	98.28	31.48	9.77	33.12	204	283	A	H
		5376.84	61	-13	74	52.82	31.46	9.83	33.11	204	283	P	H
		5387.48	52.82	-1.18	54	44.58	31.52	9.83	33.11	204	283	A	H
		5147.42	57.41	-16.59	74	48.96	31.89	9.68	33.12	199	308	P	V
		5148.98	48.53	-5.47	54	40.07	31.9	9.68	33.12	199	308	A	V
	*	5230	112.67	-	-	104.54	31.48	9.77	33.12	199	308	P	V
	*	5230	104.68	-	-	96.55	31.48	9.77	33.12	199	308	A	V
		5387.2	60.76	-13.24	74	52.52	31.52	9.83	33.11	199	308	P	V
		5383	52.81	-1.19	54	44.59	31.5	9.83	33.11	199	308	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)

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)
		5623	54.64	-13.56	68.2	45.99	31.75	10.05	33.15	206	285	P	H
		10380	49.95	-18.25	68.2	55.85	39.62	15.27	60.79	100	0	P	H
802.11ac		15570	43.64	-30.36	74	47.12	38.15	18.91	60.54	100	0	P	H
VHT40													H
CH 38		5767	54.97	-13.23	68.2	45.79	32.13	10.25	33.2	218	309	P	V
5190MHz		10380	48.93	-19.27	68.2	54.83	39.62	15.27	60.79	100	0	P	V
		15570	43.89	-30.11	74	47.37	38.15	18.91	60.54	100	0	P	V
													V
		5470	55.96	-12.24	68.2	47.39	31.78	9.9	33.11	204	283	P	H
		10460	50.18	-18.02	68.2	56.07	39.7	15.32	60.91	100	0	P	H
802.11ac		15690	43.53	-30.47	74	47.46	37.55	18.97	60.45	100	0	P	H
VHT40													H
CH 46		5470	57.7	-10.5	68.2	49.13	31.78	9.9	33.11	199	308	P	V
5230MHz		10460	49.15	-19.05	68.2	55.04	39.7	15.32	60.91	100	0	P	V
		15690	43.59	-30.41	74	47.52	37.55	18.97	60.45	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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 VHT80 CH 42 5210MHz		5142.8	62.63	-11.37	74	54.19	31.89	9.67	33.12	206	277	P	H
		5149.94	51.58	-2.42	54	43.12	31.9	9.68	33.12	206	277	A	H
	*	5210	110.58	-	-	102.38	31.56	9.76	33.12	206	277	P	H
	*	5210	102.32	-	-	94.12	31.56	9.76	33.12	206	277	A	H
		5358.08	57	-17	74	48.94	31.35	9.82	33.11	206	277	P	H
		5356	47.85	-6.15	54	39.8	31.34	9.82	33.11	206	277	A	H
		5149.26	61.59	-12.41	74	53.13	31.9	9.68	33.12	215	306	P	V
		5148.58	52.72	-1.28	54	44.26	31.9	9.68	33.12	215	306	P	V
	*	5210	111.35	-	-	103.15	31.56	9.76	33.12	215	306	P	V
	*	5210	102.55	-	-	94.35	31.56	9.76	33.12	215	306	A	V
		5386.68	55.65	-18.35	74	47.41	31.52	9.83	33.11	215	306	P	V
		5412.94	48.22	-5.78	54	39.85	31.63	9.85	33.11	215	306	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.	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)
		10420	45.73	-22.47	68.2	51.58	39.7	15.3	60.85	100	0	P	H
		15630	43.17	-30.83	74	46.87	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	46.93	-21.27	68.2	52.78	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	43.32	-30.68	74	47.02	37.85	18.94	60.49	100	0	P	V
													V
													V

Remark

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

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (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+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5150	65.91	-8.09	74	57.44	31.9	9.69	33.12	200	284	P	H
		5150	52.89	-1.11	54	44.42	31.9	9.69	33.12	200	284	A	H
	*	5180	117.99	-	-	109.66	31.72	9.73	33.12	200	284	P	H
	*	5180	110.25	-	-	101.92	31.72	9.73	33.12	200	284	A	H
802.11ac													H
VHT20													H
CH 36		5148.98	60.23	-13.77	74	51.77	31.9	9.68	33.12	282	347	P	V
5180MHz		5149.76	47.55	-6.45	54	39.09	31.9	9.68	33.12	282	347	A	V
	*	5180	117.1	-	-	108.77	31.72	9.73	33.12	282	347	P	V
	*	5180	109.14	-	-	100.81	31.72	9.73	33.12	282	347	A	V
													V
													V
		5141.18	61.45	-12.55	74	53.02	31.88	9.67	33.12	219	283	P	H
		5149.24	50.73	-3.27	54	42.27	31.9	9.68	33.12	219	283	A	H
	*	5220	121.59	-	-	113.42	31.52	9.77	33.12	219	283	P	H
	*	5220	111.45	-	-	103.28	31.52	9.77	33.12	219	283	A	H
802.11ac		5373.36	60.82	-13.18	74	52.66	31.44	9.83	33.11	219	283	P	H
VHT20		5372.88	50.44	-3.56	54	42.28	31.44	9.83	33.11	219	283	A	H
CH 44		5148.46	57.93	-16.07	74	49.47	31.9	9.68	33.12	223	308	P	V
5220MHz		5147.42	48.13	-5.87	54	39.68	31.89	9.68	33.12	223	308	A	V
	*	5220	119.8	-	-	111.63	31.52	9.77	33.12	223	308	P	V
	*	5220	112.2	-	-	104.03	31.52	9.77	33.12	223	308	A	V
		5384.88	58.47	-15.53	74	50.24	31.51	9.83	33.11	223	308	P	V
		5377.2	49.25	-4.75	54	41.07	31.46	9.83	33.11	223	308	A	V

		5139.1	55.97	-18.03	74	47.54	31.88	9.67	33.12	204	281	P	H
		5083.98	46.64	-7.36	54	38.43	31.74	9.59	33.12	204	281	A	H
	*	5240	122.22	-	-	114.12	31.44	9.78	33.12	204	281	P	H
	*	5240	114.57	-	-	106.47	31.44	9.78	33.12	204	281	A	H
802.11ac		5394.96	60.49	-13.51	74	52.19	31.57	9.84	33.11	204	281	P	H
VHT20		5403.12	50.18	-3.82	54	41.84	31.61	9.84	33.11	204	281	A	H
CH 48		5146.64	54.81	-19.19	74	46.36	31.89	9.68	33.12	317	355	P	V
5240MHz		5088.14	44.33	-9.67	54	36.11	31.75	9.59	33.12	317	355	A	V
	*	5240	120.06	-	-	111.96	31.44	9.78	33.12	317	355	P	V
	*	5240	112.36	-	-	104.26	31.44	9.78	33.12	317	355	A	V
		5407.2	58.57	-15.43	74	50.22	31.61	9.85	33.11	317	355	P	V
		5408.4	48.91	-5.09	54	40.55	31.62	9.85	33.11	317	355	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 VHT20 (Harmonic @ 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+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		5340	59.78	-8.42	68.2	51.77	31.3	9.82	33.11	200	284	P	H
		5468	55	-13.2	68.2	46.44	31.77	9.9	33.11	200	284	P	H
		10360	51.27	-16.93	68.2	57.23	39.54	15.26	60.76	100	0	P	H
		15540	44.51	-29.49	74	47.88	38.3	18.9	60.57	100	0	P	H
		5340	59.95	-8.25	68.2	51.94	31.3	9.82	33.11	282	347	P	V
		5468	56.86	-11.34	68.2	48.3	31.77	9.9	33.11	282	347	P	V
		10360	53.27	-14.93	68.2	59.23	39.54	15.26	60.76	100	0	P	V
		15540	44.13	-29.87	74	47.5	38.3	18.9	60.57	100	0	P	V
802.11ac VHT20 CH 44 5220MHz		5510	58.23	-9.97	68.2	49.52	31.88	9.94	33.11	219	283	P	H
		10440	54.52	-13.68	68.2	60.39	39.7	15.31	60.88	100	0	P	H
		15660	59.58	-14.42	74	63.41	37.7	18.95	60.48	200	32	P	H
		15660	46.32	-7.68	54	50.15	37.7	18.95	60.48	200	32	A	H
		5510	60.26	-7.94	68.2	51.55	31.88	9.94	33.11	223	308	P	V
		10440	55.64	-12.56	68.2	61.51	39.7	15.31	60.88	100	0	P	V
		15660	60.68	-13.32	74	64.51	37.7	18.95	60.48	213	79	P	V
		15660	47.95	-6.05	54	51.78	37.7	18.95	60.48	213	79	A	V
802.11ac VHT20 CH 48 5240MHz		5532	59.32	-8.88	68.2	50.64	31.84	9.96	33.12	204	281	P	H
		10480	53.52	-14.68	68.2	59.46	39.7	15.33	60.97	100	0	P	H
		15720	60.56	-13.44	74	64.48	37.52	18.98	60.42	211	3333	P	H
		15720	47.55	-6.45	54	51.47	37.52	18.98	60.42	211	3333	A	H
		5532	60.13	-8.07	68.2	51.45	31.84	9.96	33.12	317	355	P	V
		10480	55.82	-12.38	68.2	61.76	39.7	15.33	60.97	100	0	P	V
		15720	60.2	-13.8	74	64.12	37.52	18.98	60.42	100	86	P	V
		15720	46.51	-7.49	54	50.43	37.52	18.98	60.42	100	86	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5148.46	62.13	-11.87	74	53.67	31.9	9.68	33.12	219	289	P	H
		5149.76	51.05	-2.95	54	42.59	31.9	9.68	33.12	219	289	A	H
	*	5190	113.02	-	-	104.74	31.66	9.74	33.12	219	289	P	H
	*	5190	104.61	-	-	96.33	31.66	9.74	33.12	219	289	A	H
802.11ac		5416.88	56.44	-17.56	74	48.06	31.63	9.86	33.11	219	289	P	H
VHT40		5413.24	49.14	-4.86	54	40.77	31.63	9.85	33.11	219	289	A	H
CH 38		5148.46	59.88	-14.12	74	51.42	31.9	9.68	33.12	322	304	P	V
5190MHz		5150	48.59	-5.41	54	40.12	31.9	9.69	33.12	322	304	A	V
	*	5190	109.95	-	-	101.67	31.66	9.74	33.12	322	304	P	V
	*	5190	102.07	-	-	93.79	31.66	9.74	33.12	322	304	A	V
		5363.96	55.5	-18.5	74	47.4	31.38	9.83	33.11	322	304	P	V
		5362.56	46.64	-7.36	54	38.54	31.38	9.83	33.11	322	304	A	V
		5147.94	55.51	-18.49	74	47.05	31.9	9.68	33.12	205	286	P	H
		5149.5	49.19	-4.81	54	40.73	31.9	9.68	33.12	205	286	A	H
	*	5230	115.89	-	-	107.76	31.48	9.77	33.12	205	286	P	H
	*	5230	107.86	-	-	99.73	31.48	9.77	33.12	205	286	A	H
802.11ac		5398.4	60.96	-13.04	74	52.64	31.59	9.84	33.11	205	286	P	H
VHT40		5384.4	51.83	-2.17	54	43.6	31.51	9.83	33.11	205	286	P	H
CH 46		5054.6	53.03	-20.97	74	44.99	31.62	9.54	33.12	340	306	P	V
5230MHz		5059.02	45.39	-8.61	54	37.32	31.64	9.55	33.12	340	306	A	V
	*	5230	111.27	-	-	103.14	31.48	9.77	33.12	340	306	P	V
	*	5230	104.34	-	-	96.21	31.48	9.77	33.12	340	306	A	V
		5403.44	59.03	-14.97	74	50.69	31.61	9.84	33.11	340	306	P	V
		5377.4	51.03	-2.97	54	42.85	31.46	9.83	33.11	340	306	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)

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+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5767	54	-14.2	68.2	44.82	32.13	10.25	33.2	219	289	P	H
		10380	46.78	-21.42	68.2	52.68	39.62	15.27	60.79	100	0	P	H
802.11ac		15570	43.31	-30.69	74	46.79	38.15	18.91	60.54	100	0	P	H
VHT40													H
CH 38		5767	55.04	-13.16	68.2	45.86	32.13	10.25	33.2	322	304	P	V
5190MHz		10380	46.31	-21.89	68.2	52.21	39.62	15.27	60.79	100	0	P	V
		15570	43.81	-30.19	74	47.29	38.15	18.91	60.54	100	0	P	V
													V
		5482	56.3	-11.9	68.2	47.67	31.83	9.91	33.11	205	286	P	H
		10460	47.47	-20.73	68.2	53.36	39.7	15.32	60.91	100	0	P	H
802.11ac		15690	44.02	-29.98	74	47.95	37.55	18.97	60.45	100	0	P	H
VHT40													H
CH 46		5482	55.42	-12.78	68.2	46.79	31.83	9.91	33.11	340	306	P	V
5230MHz		10460	49.06	-19.14	68.2	54.95	39.7	15.32	60.91	100	0	P	V
		15690	43.74	-30.26	74	47.67	37.55	18.97	60.45	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5144.16	64.18	-9.82	74	55.73	31.89	9.68	33.12	212	279	P	H
		5148.92	52.29	-1.71	54	43.83	31.9	9.68	33.12	212	279	A	H
	*	5210	109.64	-	-	101.44	31.56	9.76	33.12	212	279	P	H
	*	5210	101.86	-	-	93.66	31.56	9.76	33.12	212	279	A	H
		5386.94	58.16	-15.84	74	49.92	31.52	9.83	33.11	212	279	P	H
		5384.86	50.8	-3.2	54	42.57	31.51	9.83	33.11	212	279	A	H
		5144.16	53.88	-20.12	74	45.43	31.89	9.68	33.12	268	304	P	V
		5144.16	48.32	-5.68	54	39.87	31.89	9.68	33.12	268	304	A	V
	*	5210	107.48	-	-	99.28	31.56	9.76	33.12	268	304	P	V
	*	5210	98.01	-	-	89.81	31.56	9.76	33.12	268	304	A	V
		5357.04	54.39	-19.61	74	46.34	31.34	9.82	33.11	268	304	P	V
		5356.52	47.33	-6.67	54	39.28	31.34	9.82	33.11	268	304	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	44.54	-23.66	68.2	50.39	39.7	15.3	60.85	100	0	P	H
		15630	45.04	-28.96	74	48.74	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	46.12	-22.08	68.2	51.97	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	44.22	-29.78	74	47.92	37.85	18.94	60.49	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

WIFI 802.11ac VHT20 (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+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 LF		45.52	24.3	-15.7	40	39.41	16.32	0.94	32.37	-	-	P	H
		91.11	30.09	-13.41	43.5	46.33	14.76	1.33	32.33	-	-	P	H
		287.05	32.18	-13.82	46	43.28	18.84	2.25	32.19	-	-	P	H
		591.63	28.13	-17.87	46	31.67	25.48	3.19	32.21	-	-	P	H
		888.45	32.09	-13.91	46	30.43	29.06	4.01	31.41	-	-	P	H
		958.29	34.56	-11.44	46	30.26	30.93	4.18	30.81	100	0	P	H
													H
													H
													H
													H
													H
													H
		31.94	36.91	-3.09	40	45.35	23.16	0.77	32.37	100	0	P	V
		41.64	27.92	-12.08	40	41.18	18.23	0.88	32.37	-	-	P	V
		266.68	26.78	-19.22	46	37.72	19.09	2.17	32.2	-	-	P	V
		581.93	28.35	-17.65	46	32.12	25.26	3.17	32.2	-	-	P	V
		838.98	31.15	-14.85	46	30.18	28.74	3.9	31.67	-	-	P	V
		925.31	33.18	-12.82	46	30.9	29.31	4.09	31.12	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (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+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5149.24	65.75	-8.25	74	57.29	31.9	9.68	33.12	359	311	P	H
		5150	52.81	-1.19	54	44.34	31.9	9.69	33.12	359	311	A	H
	*	5180	117.16	-	-	108.83	31.72	9.73	33.12	359	311	P	H
	*	5180	109.5	-	-	101.17	31.72	9.73	33.12	359	311	A	H
802.11ac													H
VHT20													H
CH 36		5149.24	64.1	-9.9	74	55.64	31.9	9.68	33.12	228	244	P	V
5180MHz		5148.46	50.02	-3.98	54	41.56	31.9	9.68	33.12	228	244	A	V
	*	5180	119.46	-	-	111.13	31.72	9.73	33.12	228	244	P	V
	*	5180	111.17	-	-	102.84	31.72	9.73	33.12	228	244	A	V
													V
													V
		5148.46	60.86	-13.14	74	52.4	31.9	9.68	33.12	231	292	P	H
		5145.08	50.16	-3.84	54	41.71	31.89	9.68	33.12	231	292	A	H
	*	5220	122.14	-	-	113.97	31.52	9.77	33.12	231	292	P	H
	*	5220	114.45	-	-	106.28	31.52	9.77	33.12	231	292	A	H
802.11ac		5384.64	60.73	-13.27	74	52.5	31.51	9.83	33.11	231	292	P	H
VHT20		5384.88	50.32	-3.68	54	42.09	31.51	9.83	33.11	231	292	A	H
CH 44		5148.46	61.28	-12.72	74	52.82	31.9	9.68	33.12	247	267	P	V
5220MHz		5142.74	50.23	-3.77	54	41.79	31.89	9.67	33.12	247	267	A	V
	*	5220	121.7	-	-	113.53	31.52	9.77	33.12	247	267	P	V
	*	5220	113.93	-	-	105.76	31.52	9.77	33.12	247	267	A	V
		5383.68	58.78	-15.22	74	50.56	31.5	9.83	33.11	247	267	P	V
		5378.16	51.49	-2.51	54	43.3	31.47	9.83	33.11	247	267	A	V

		5148.46	55.47	-18.53	74	47.01	31.9	9.68	33.12	215	289	P	H
		5150	46.35	-7.65	54	37.88	31.9	9.69	33.12	215	289	A	H
	*	5240	121.06	-	-	112.96	31.44	9.78	33.12	215	289	P	H
	*	5240	113.19	-	-	105.09	31.44	9.78	33.12	215	289	A	H
802.11ac		5394.24	58	-16	74	49.7	31.57	9.84	33.11	215	289	P	H
VHT20		5397.6	49.19	-4.81	54	40.87	31.59	9.84	33.11	215	289	A	H
CH 48		5148.2	54.69	-19.31	74	46.23	31.9	9.68	33.12	265	274	P	V
5240MHz		5150	46.44	-7.56	54	37.97	31.9	9.69	33.12	265	274	A	V
	*	5240	122.04	-	-	113.94	31.44	9.78	33.12	265	274	P	V
	*	5240	114.17	-	-	106.07	31.44	9.78	33.12	265	274	A	V
		5395.44	60.56	-13.44	74	52.26	31.57	9.84	33.11	265	274	P	V
		5397.84	51.24	-2.76	54	42.92	31.59	9.84	33.11	265	274	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5467	56.41	-11.79	68.2	47.85	31.77	9.9	33.11	359	311	P	H
		10360	50.11	-18.09	68.2	56.07	39.54	15.26	60.76	100	0	P	H
802.11ac		15540	44.85	-29.15	74	48.22	38.3	18.9	60.57	100	0	P	H
VHT20													H
CH 36		5467	60.68	-7.52	68.2	52.12	31.77	9.9	33.11	228	244	P	V
5180MHz		10360	53.28	-14.92	68.2	59.24	39.54	15.26	60.76	100	0	P	V
		15540	44.27	-29.73	74	47.64	38.3	18.9	60.57	100	0	P	V
													V
		5510	58.25	-9.95	68.2	49.54	31.88	9.94	33.11	231	292	P	H
		10440	55.98	-12.22	68.2	61.85	39.7	15.31	60.88	100	0	P	H
802.11ac		15660	61.33	-12.67	74	65.16	37.7	18.95	60.48	271	334	P	H
VHT20		15660	48.61	-5.39	54	52.44	37.7	18.95	60.48	271	334	A	H
CH 44		5462	59.33	-8.87	68.2	50.79	31.75	9.9	33.11	247	267	P	V
5220MHz		10440	54.6	-13.6	68.2	60.47	39.7	15.31	60.88	100	0	P	V
		15660	62.52	-11.48	74	66.35	37.7	18.95	60.48	195	43	P	V
		15660	49.79	-4.21	54	53.62	37.7	18.95	60.48	195	43	A	V
		5536	59.1	-9.1	68.2	50.43	31.83	9.96	33.12	215	289	P	H
		10480	52.29	-15.91	68.2	58.23	39.7	15.33	60.97	100	0	P	H
802.11ac		15720	59.21	-14.79	74	63.13	37.52	18.98	60.42	204	329	P	H
VHT20		15720	46.14	-7.86	54	50.06	37.52	18.98	60.42	204	329	A	H
CH 48		5476	56.11	-12.09	68.2	47.51	31.8	9.91	33.11	265	274	P	V
5240MHz		10480	55.24	-12.96	68.2	61.18	39.7	15.33	60.97	100	0	P	V
		15720	61	-13	74	64.92	37.52	18.98	60.42	212	79	P	V
		15720	47.98	-6.02	54	51.9	37.52	18.98	60.42	212	79	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5150	63.08	-10.92	74	54.61	31.9	9.69	33.12	218	291	P	H
		5150	52.16	-1.84	54	43.69	31.9	9.69	33.12	218	291	A	H
	*	5190	111.47	-	-	103.19	31.66	9.74	33.12	218	291	P	H
	*	5190	103.83	-	-	95.55	31.66	9.74	33.12	218	291	A	H
802.11ac		5362.28	59.47	-14.53	74	51.39	31.37	9.82	33.11	218	291	P	H
VHT40		5366.76	49.41	-4.59	54	41.29	31.4	9.83	33.11	218	291	A	H
CH 38		5148.46	61.31	-12.69	74	52.85	31.9	9.68	33.12	283	267	P	V
5190MHz		5150	51.21	-2.79	54	42.74	31.9	9.69	33.12	283	267	A	V
	*	5190	112.92	-	-	104.64	31.66	9.74	33.12	283	267	P	V
	*	5190	105.2	-	-	96.92	31.66	9.74	33.12	283	267	A	V
		5367.32	58.87	-15.13	74	50.75	31.4	9.83	33.11	283	267	P	V
		5366.2	50.09	-3.91	54	41.97	31.4	9.83	33.11	283	267	A	V
		5146.12	53.65	-20.35	74	45.2	31.89	9.68	33.12	228	295	P	H
		5141.7	46.44	-7.56	54	38.01	31.88	9.67	33.12	228	295	A	H
	*	5230	113.22	-	-	105.09	31.48	9.77	33.12	228	295	P	H
	*	5230	105.2	-	-	97.07	31.48	9.77	33.12	228	295	A	H
802.11ac		5387.76	59.92	-14.08	74	51.66	31.53	9.84	33.11	228	295	P	H
VHT40		5382.44	51.82	-2.18	54	43.61	31.49	9.83	33.11	228	295	A	H
CH 46		5080.86	54.29	-19.71	74	46.11	31.72	9.58	33.12	293	273	P	V
5230MHz		5142.74	45.78	-8.22	54	37.34	31.89	9.67	33.12	293	273	A	V
	*	5230	113.46	-	-	105.33	31.48	9.77	33.12	293	273	P	V
	*	5230	106.35	-	-	98.22	31.48	9.77	33.12	293	273	A	V
		5382.44	60.95	-13.05	74	52.74	31.49	9.83	33.11	293	273	P	V
		5383	52.57	-1.43	54	44.35	31.5	9.83	33.11	293	273	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 VHT40 (Harmonic @ 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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10380	46.61	-21.59	68.2	52.51	39.62	15.27	60.79	100	0	P	H
		15570	42.99	-31.01	74	46.47	38.15	18.91	60.54	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	47.76	-20.44	68.2	53.66	39.62	15.27	60.79	100	0	P	V
5190MHz		15570	43.34	-30.66	74	46.82	38.15	18.91	60.54	100	0	P	V
													V
													V
		5470	57.91	-10.29	68.2	49.34	31.78	9.9	33.11	228	295	P	H
		10460	45.4	-22.8	68.2	51.29	39.7	15.32	60.91	100	0	P	H
802.11ac		15690	41.97	-32.03	74	45.9	37.55	18.97	60.45	100	0	P	H
VHT40													H
CH 46		5470	56.26	-11.94	68.2	47.69	31.78	9.9	33.11	293	273	P	V
5230MHz		10460	49.67	-18.53	68.2	55.56	39.7	15.32	60.91	100	0	P	V
		15690	43.41	-30.59	74	47.34	37.55	18.97	60.45	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5146.88	62.42	-11.58	74	53.97	31.89	9.68	33.12	234	294	P	H
		5149.26	51.67	-2.33	54	43.21	31.9	9.68	33.12	234	294	A	H
	*	5210	111.5	-	-	103.3	31.56	9.76	33.12	234	294	P	H
	*	5210	103.84	-	-	95.64	31.56	9.76	33.12	234	294	A	H
		5427.24	57.17	-16.83	74	48.77	31.65	9.86	33.11	234	294	P	H
		5426.2	49.17	-4.83	54	40.77	31.65	9.86	33.11	234	294	A	H
		5145.52	65.24	-8.76	74	56.79	31.89	9.68	33.12	260	277	P	V
		5149.6	51.77	-2.23	54	43.31	31.9	9.68	33.12	260	277	A	V
	*	5210	112.11	-	-	103.91	31.56	9.76	33.12	260	277	P	V
	*	5210	104.02	-	-	95.82	31.56	9.76	33.12	260	277	A	V
		5378.62	56.21	-17.79	74	48.02	31.47	9.83	33.11	260	277	P	V
		5383.82	48.15	-5.85	54	39.93	31.5	9.83	33.11	260	277	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	44.76	-23.44	68.2	50.61	39.7	15.3	60.85	100	0	P	H
		15630	43.7	-30.3	74	47.4	37.85	18.94	60.49	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	44.9	-23.3	68.2	50.75	39.7	15.3	60.85	100	0	P	V
5210MHz		15630	43.59	-30.41	74	47.29	37.85	18.94	60.49	100	0	P	V
													V
													V

Remark

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

Note symbol

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

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

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

1. 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".

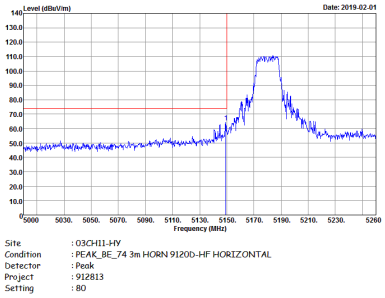
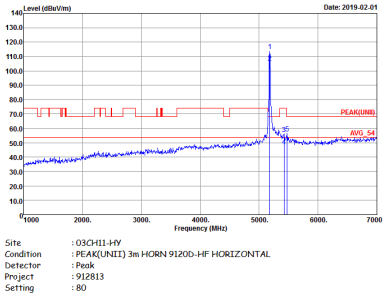
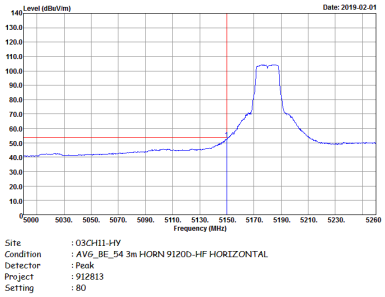
Appendix D. Radiated Spurious Emission Plots

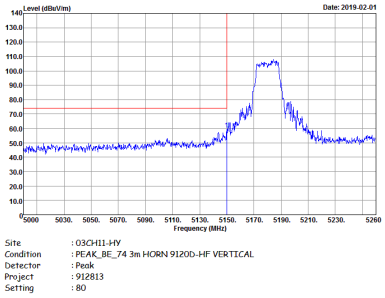
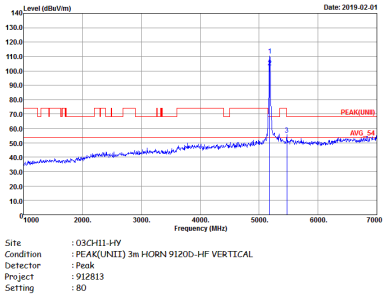
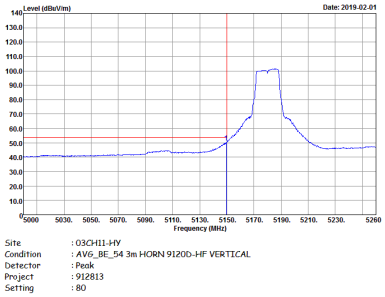
Test Engineer :	Hao Hsu, Ken Wu, and JC Liang	**Temperature :**	20~25°C
		Relative Humidity :	50~55%

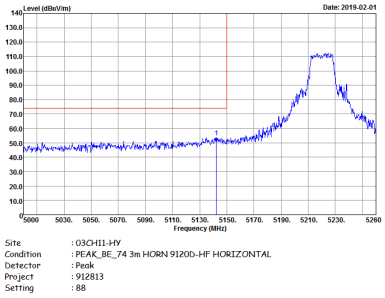
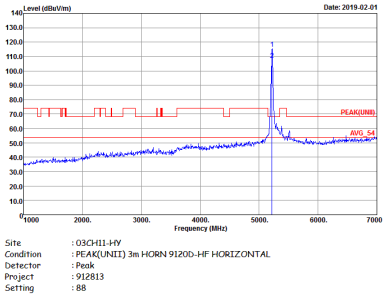
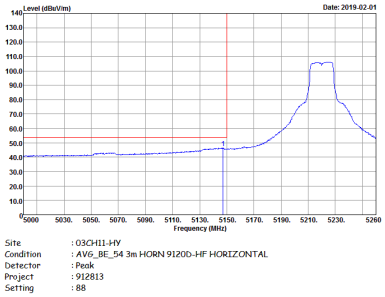
Note symbol

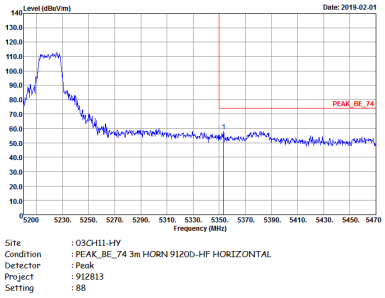
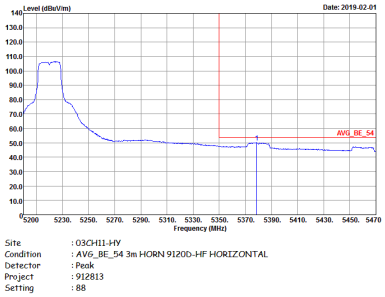
-L	**Low channel location**
-R	**High channel location**

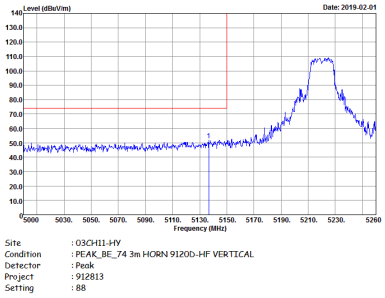
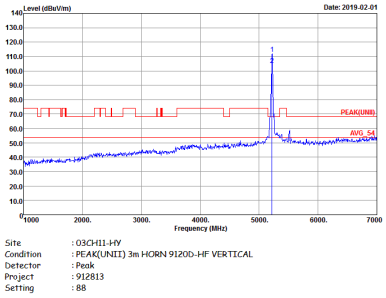
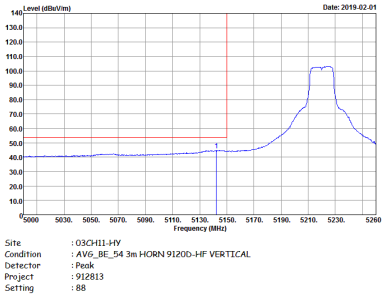
<CDD Mode>
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

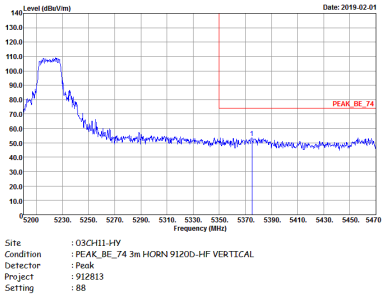
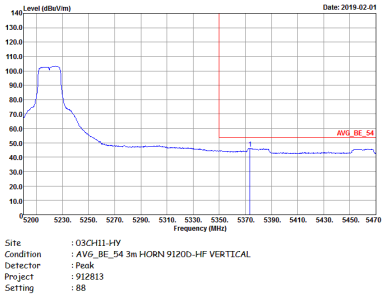
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

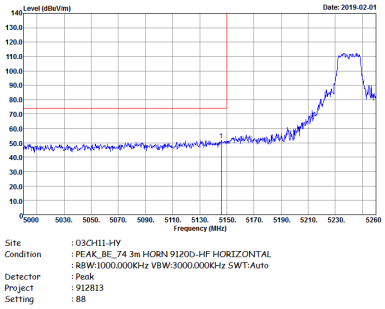
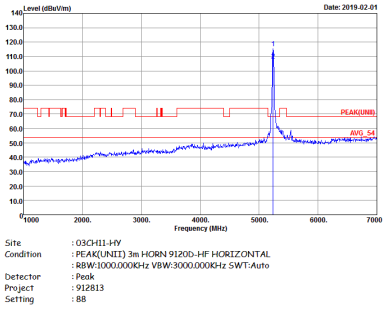
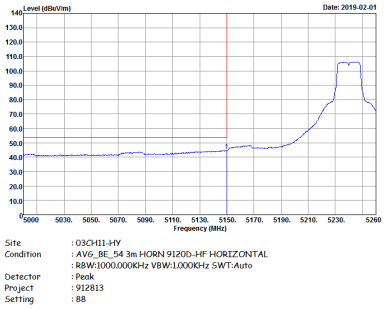
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

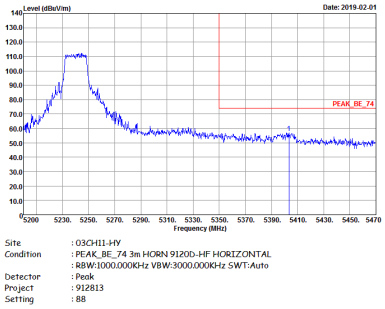
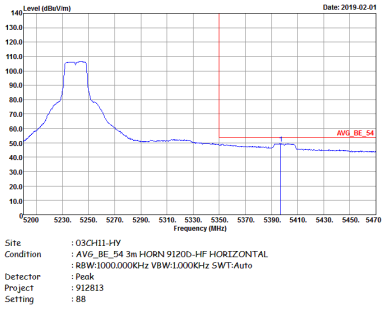
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

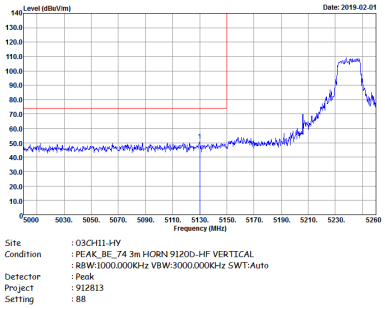
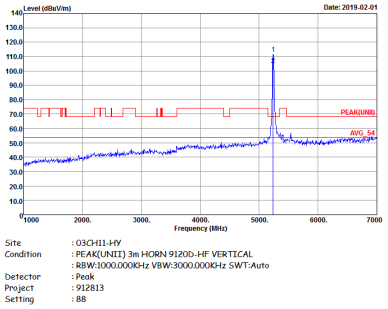
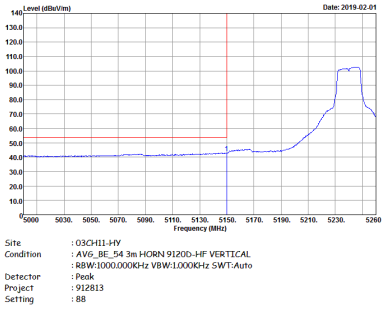
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

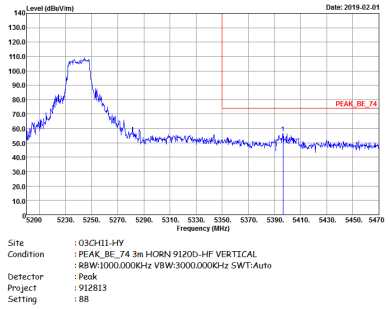
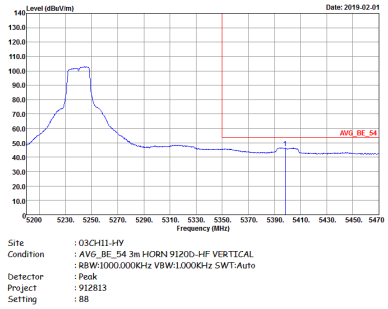
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

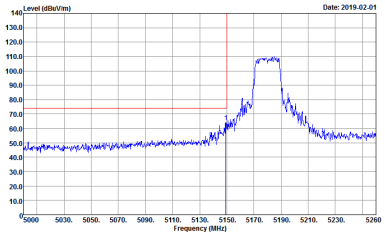
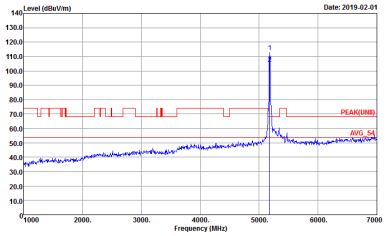
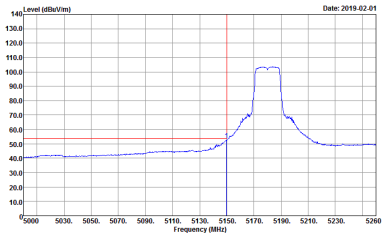
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

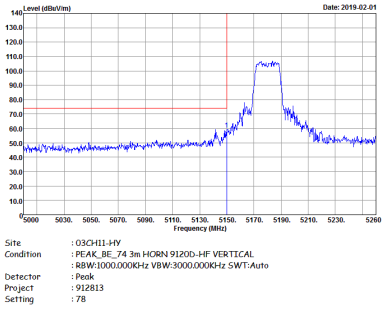
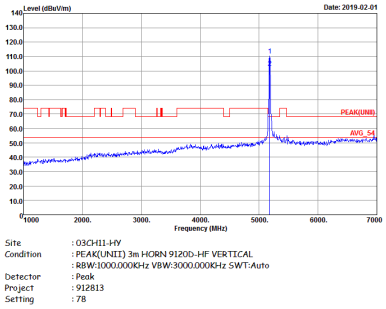
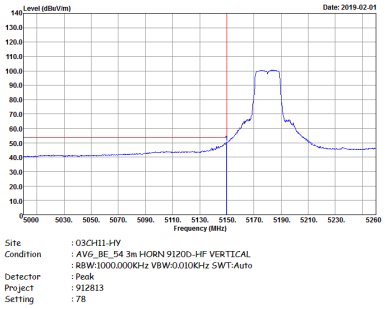
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

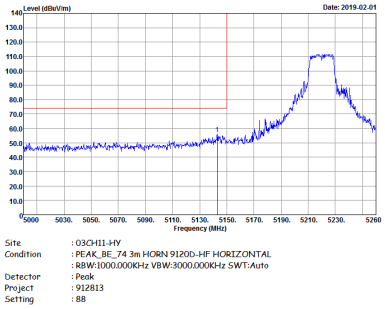
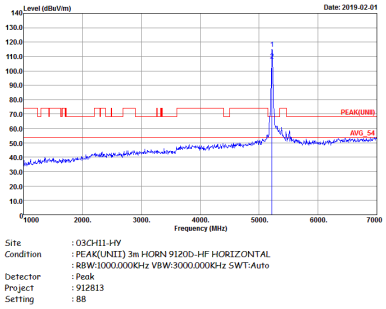
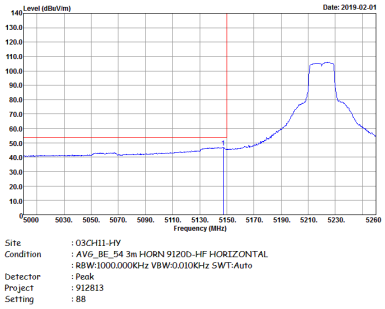
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

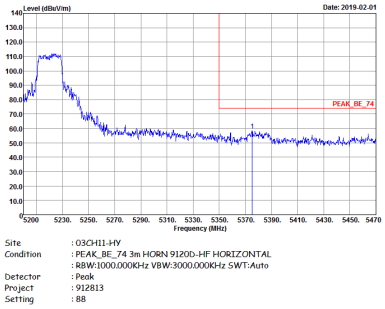
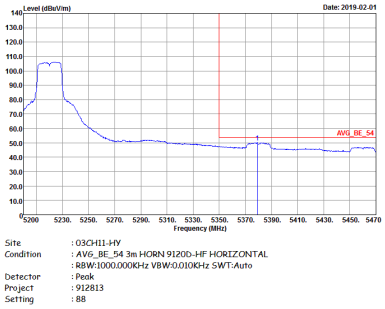
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

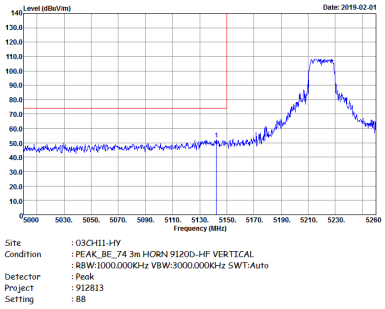
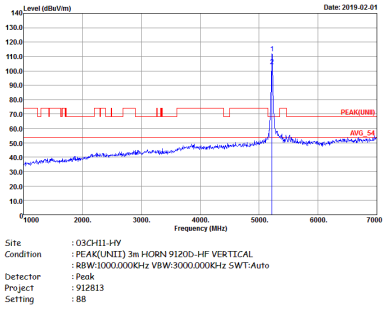
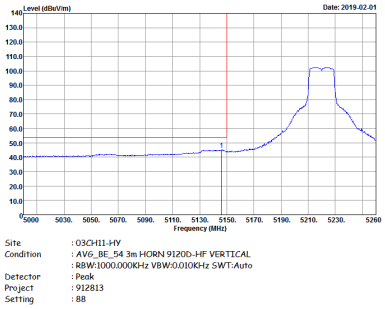
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

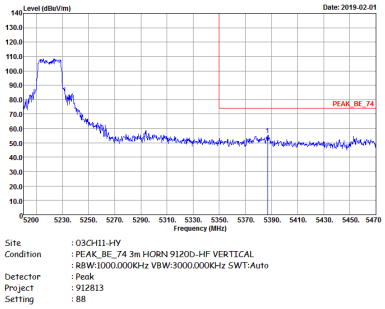
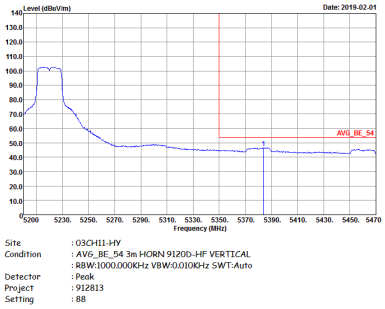
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

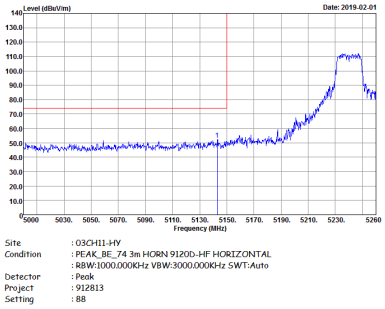
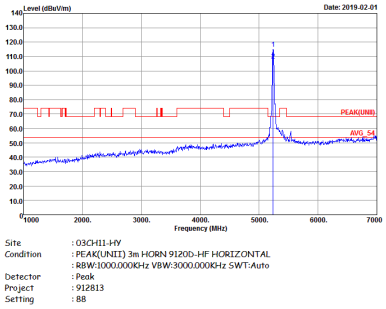
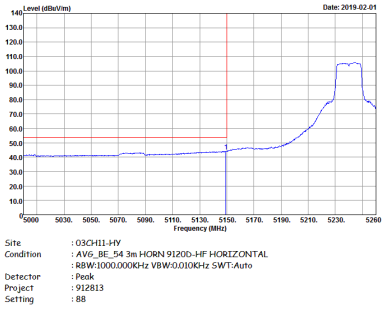
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

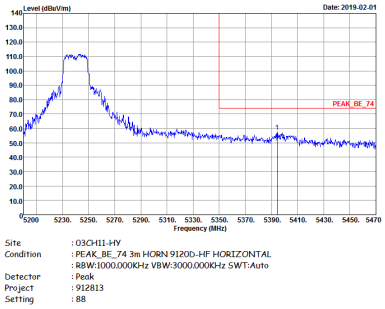
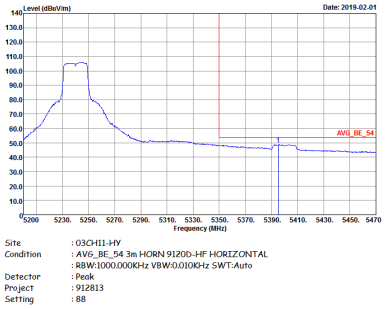
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

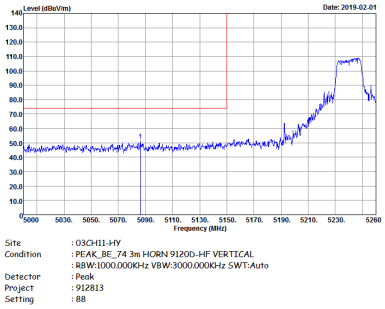
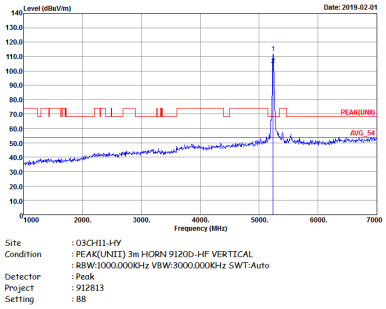
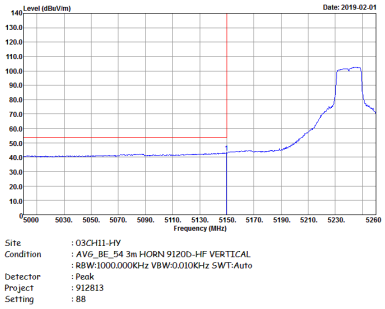
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

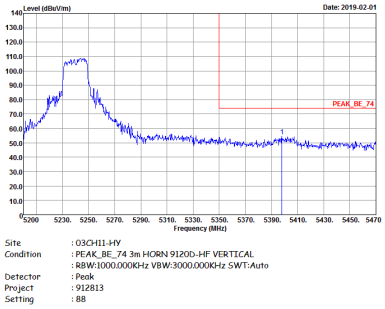
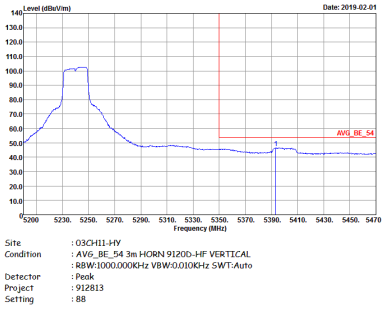
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

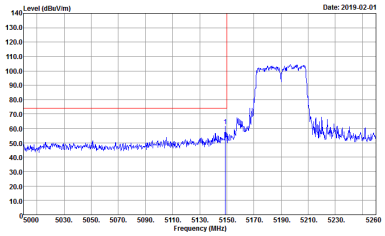
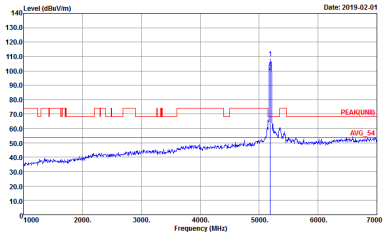
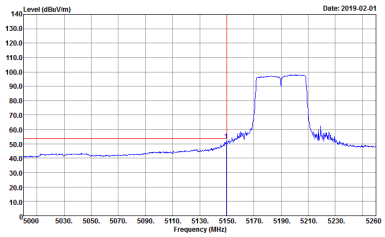
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

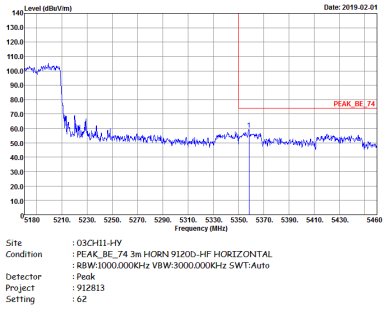
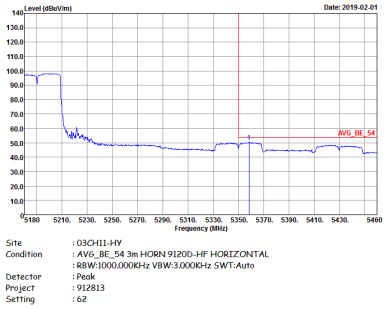
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

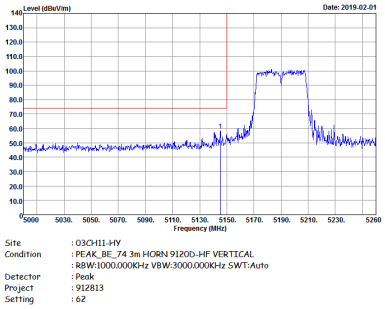
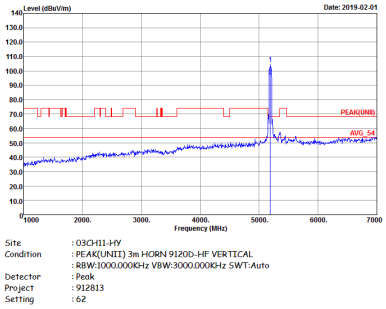
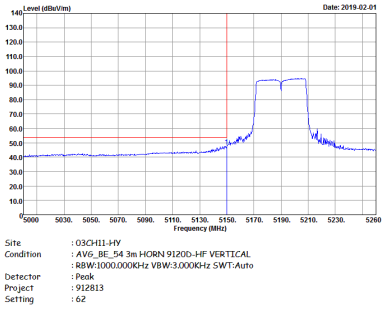
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

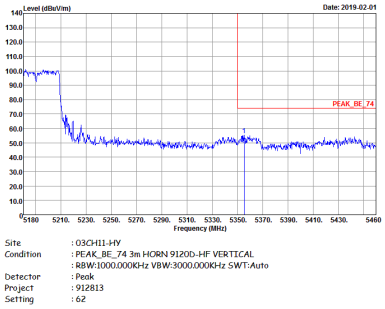
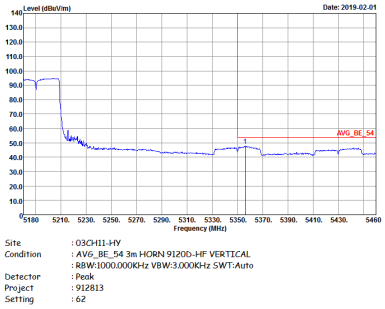
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

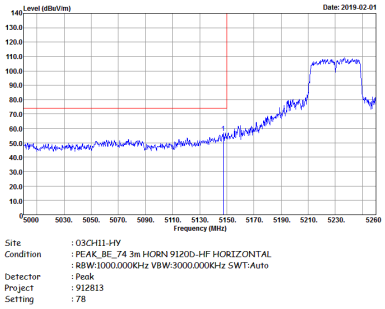
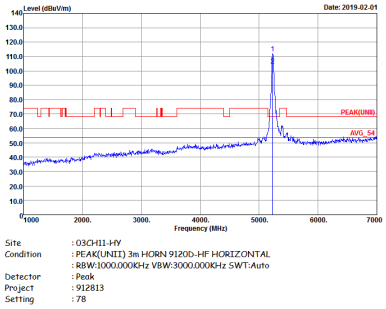
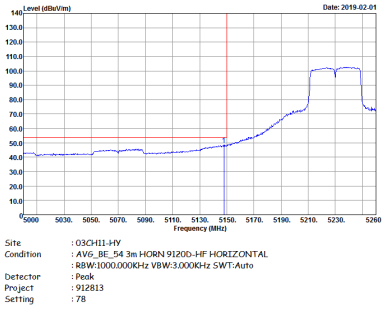
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

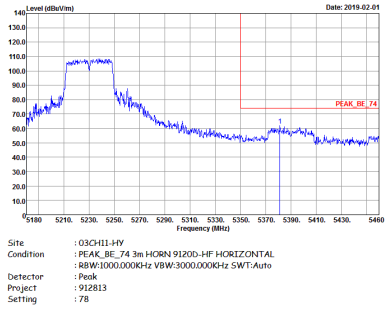
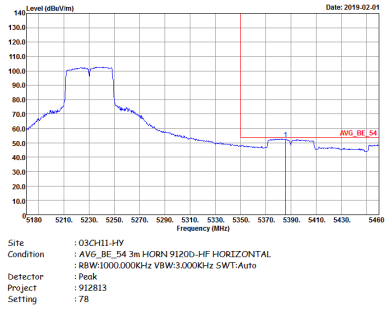
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 912813 Setting : 62	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 912813 Setting : 62
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 912813 Setting : 62	Left blank

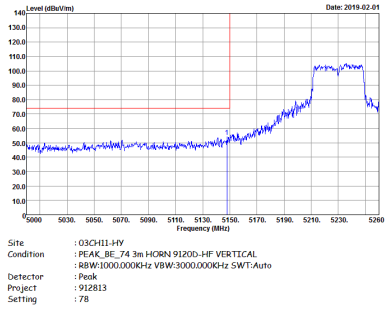
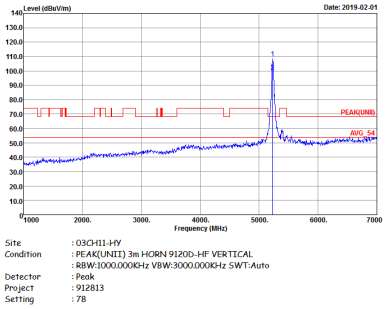
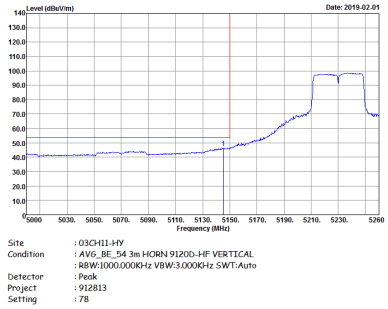
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

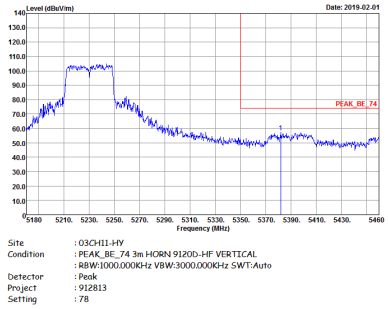
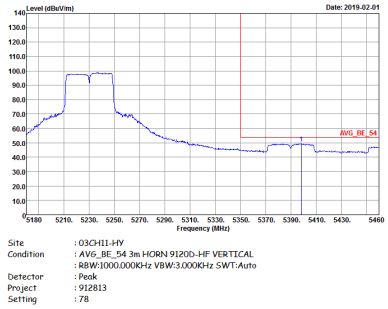
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

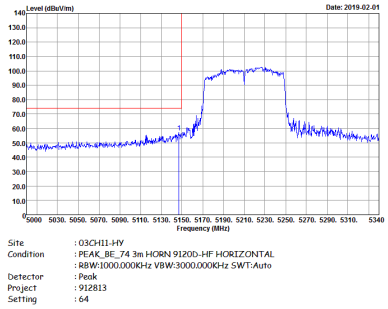
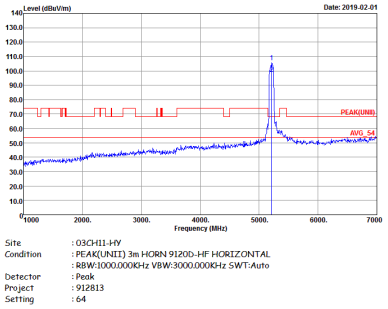
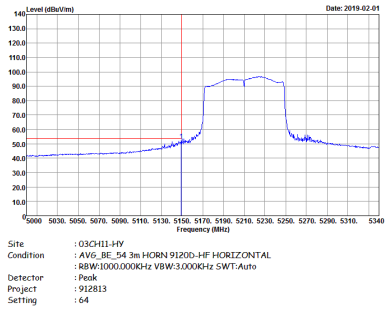
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

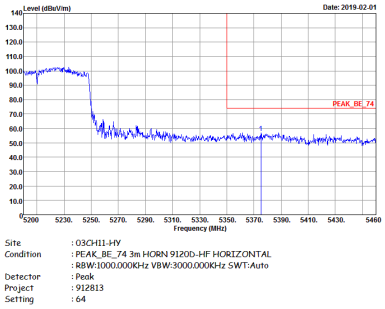
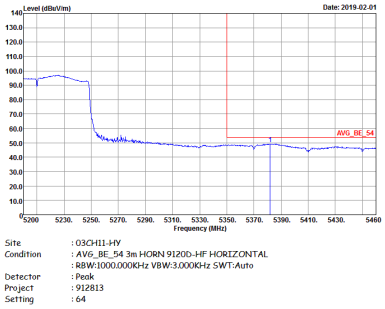
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

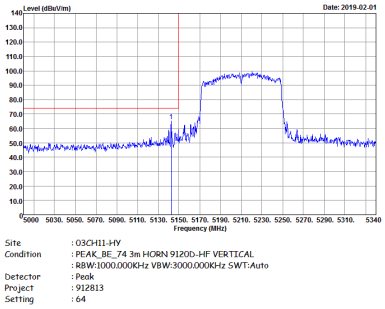
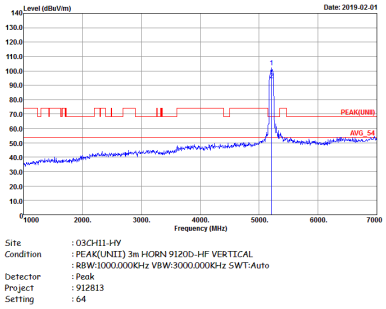
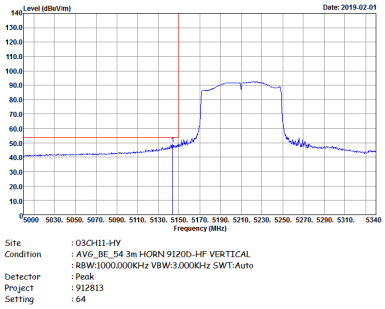
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

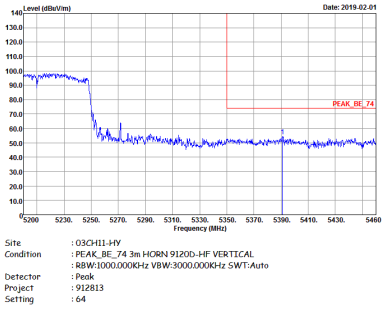
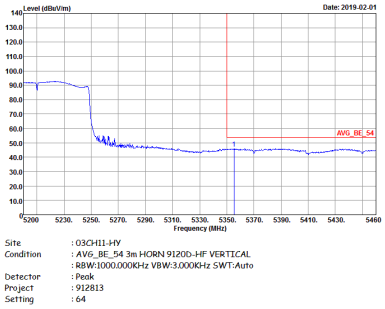
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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		
Avg.		Left blank

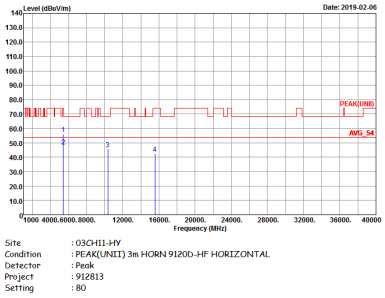
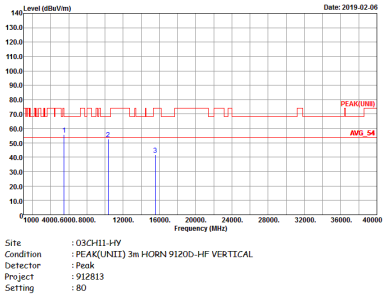
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

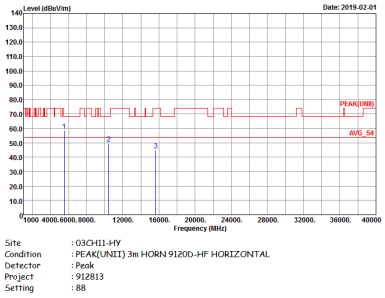
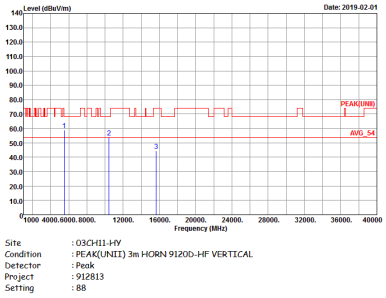
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

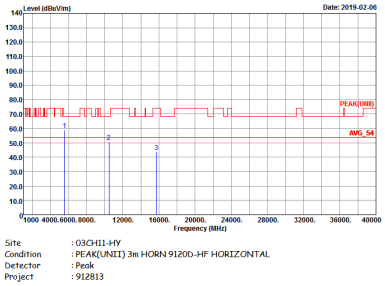
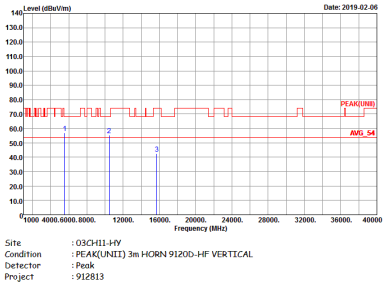
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

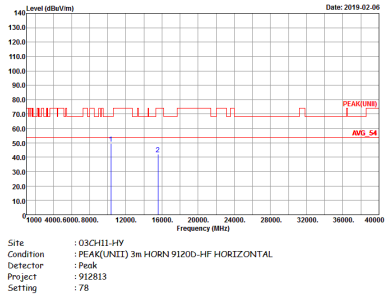
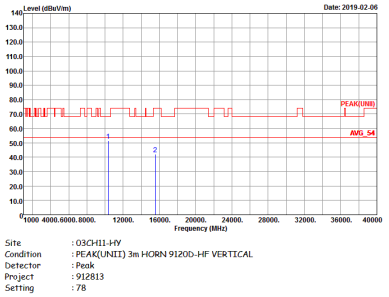
WIFI 802.11a (Harmonic @ 3m)

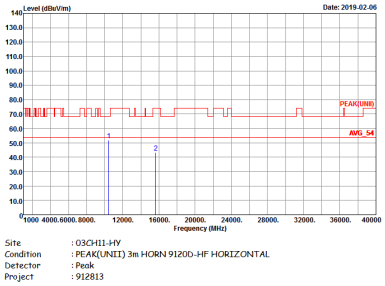
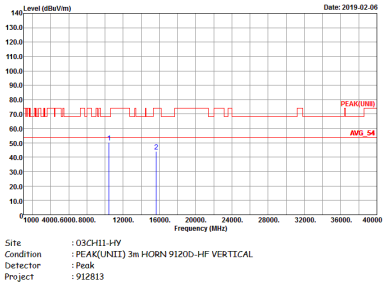
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

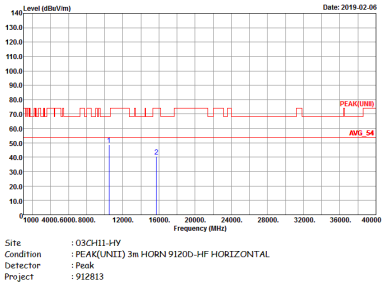
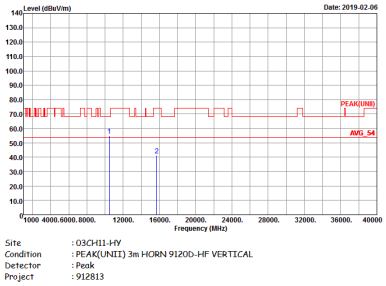
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

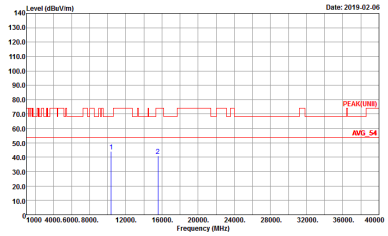
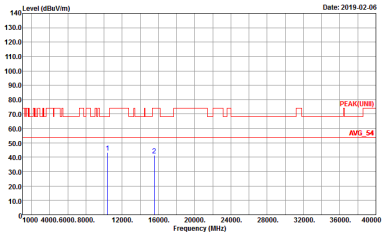
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

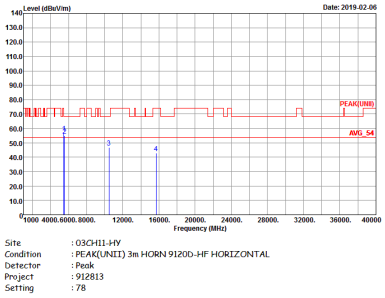
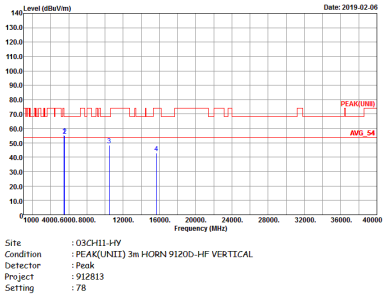
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

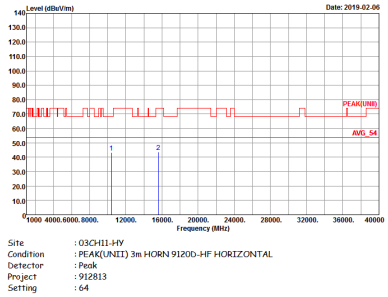
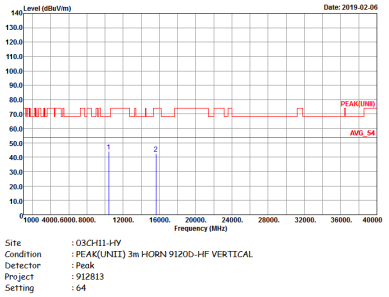
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 912813 Setting : 62	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 912813 Setting : 62

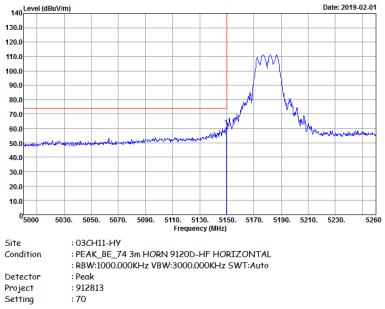
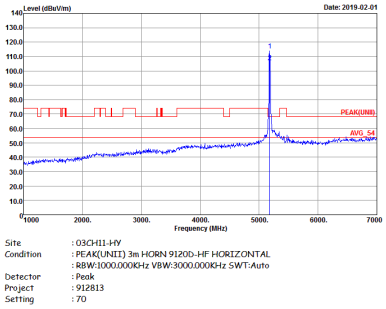
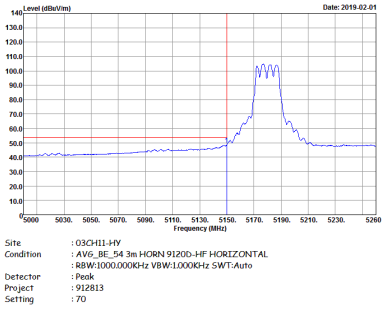
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

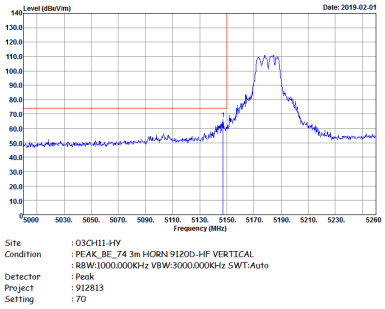
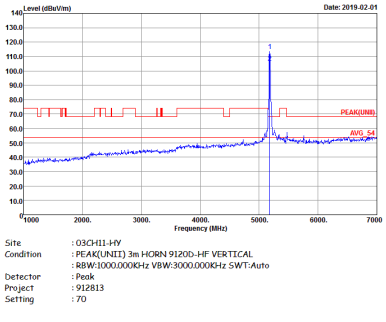
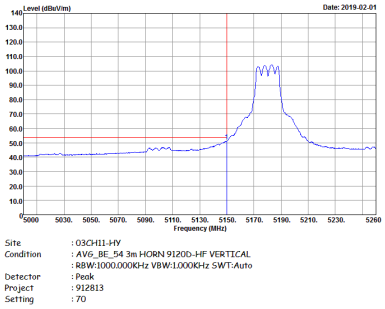
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

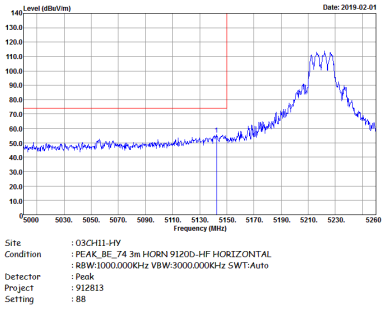
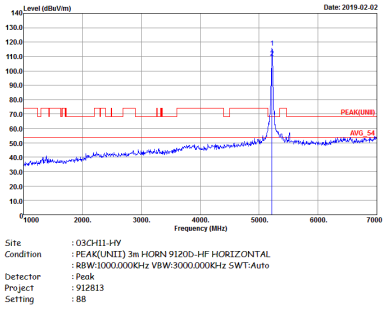
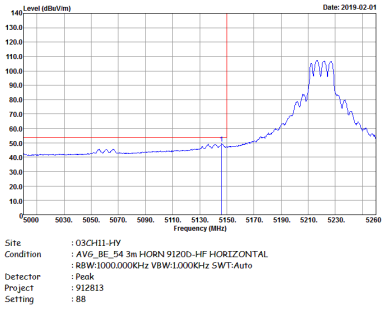
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

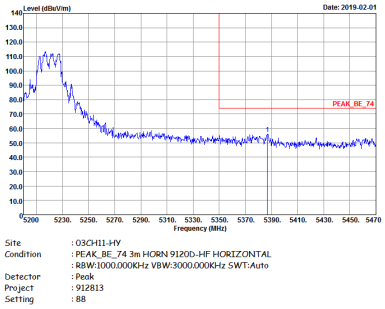
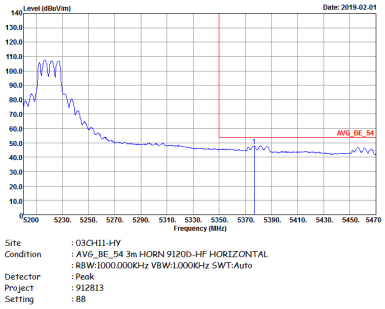
Band 1 - 5150~5250MHz

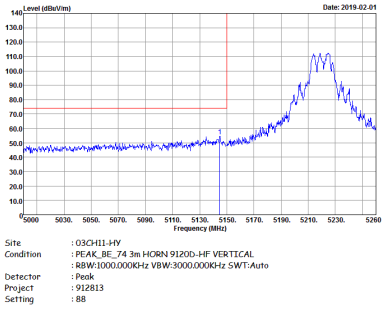
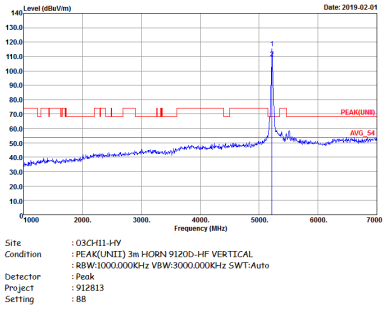
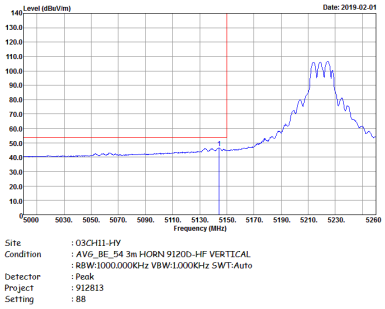
WIFI 802.11a (Band Edge @ 3m)

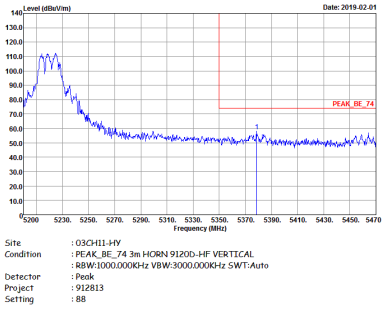
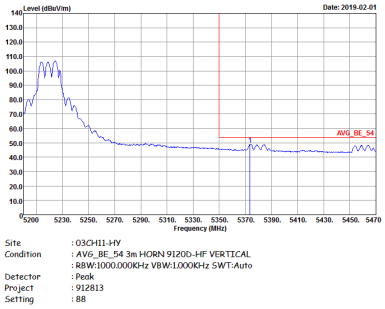
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

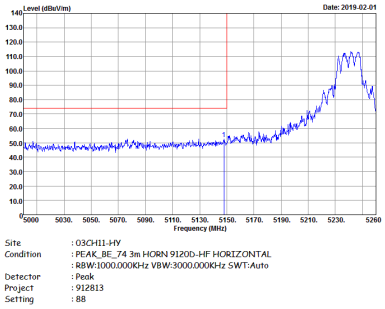
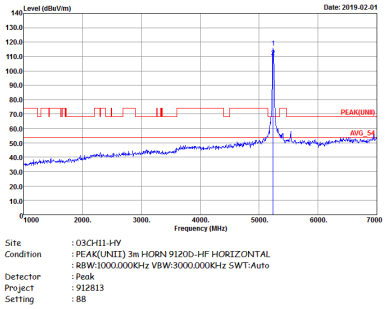
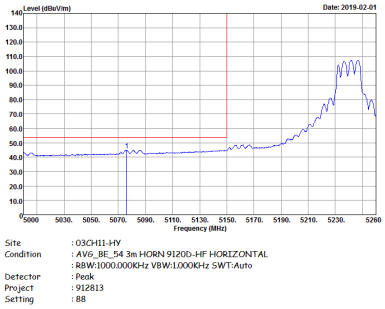
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

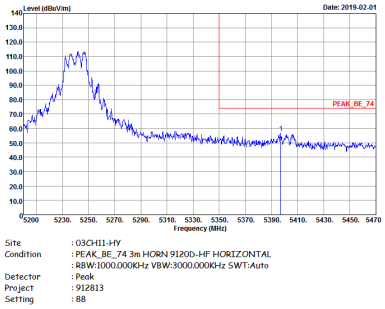
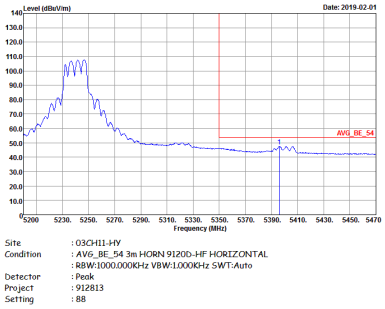
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

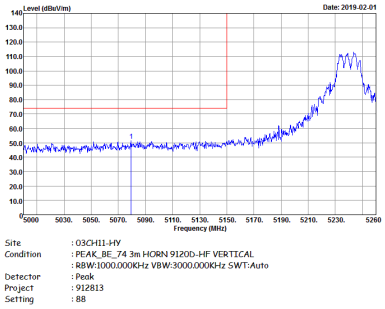
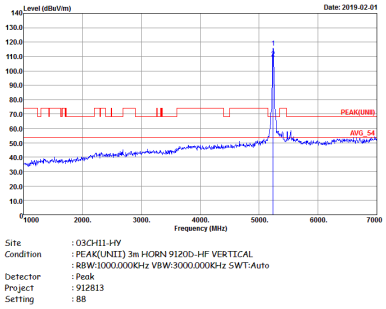
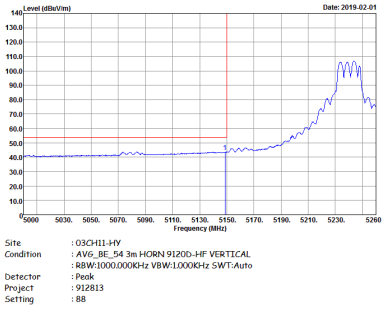
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

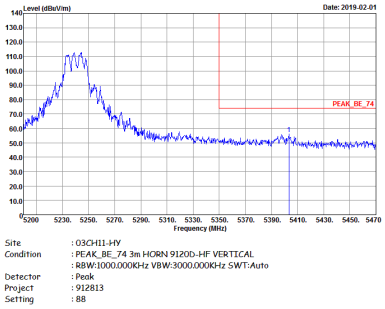
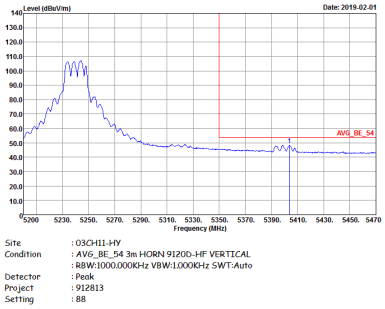
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

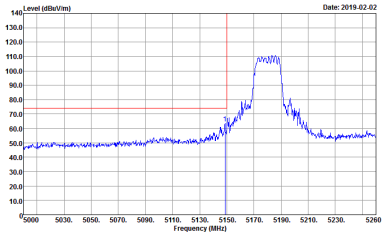
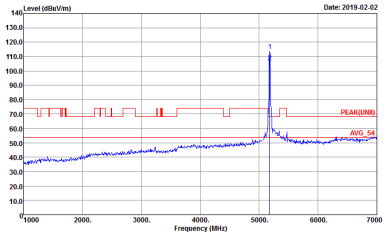
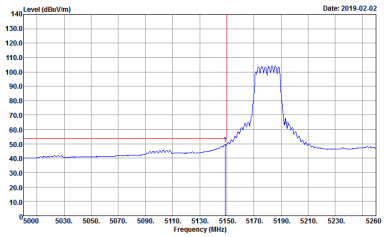
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

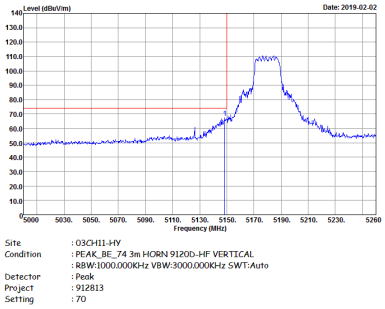
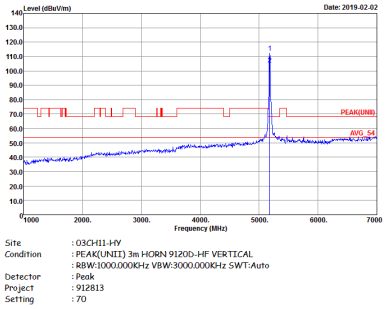
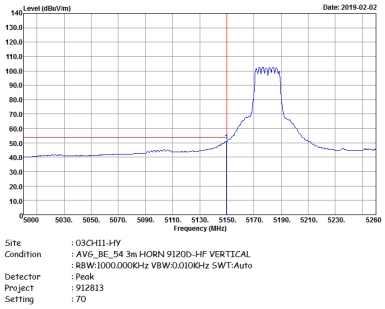
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

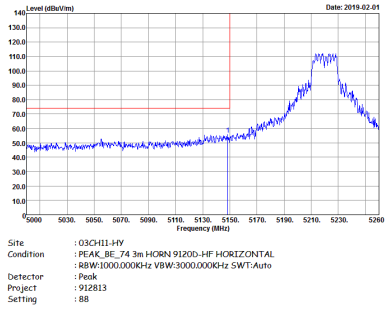
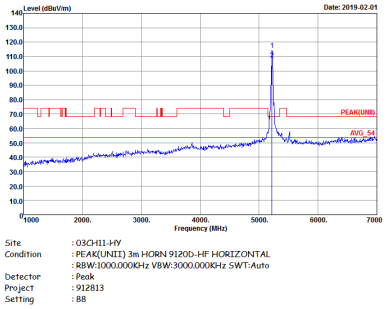
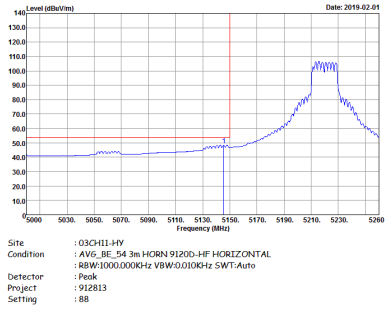
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

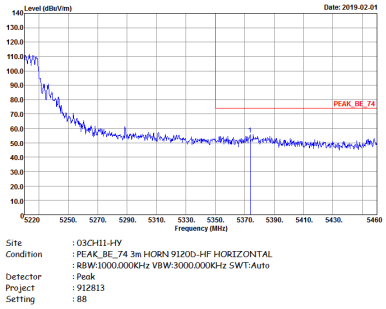
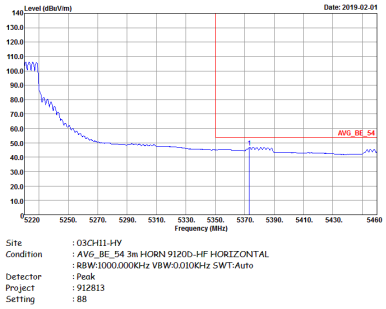
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

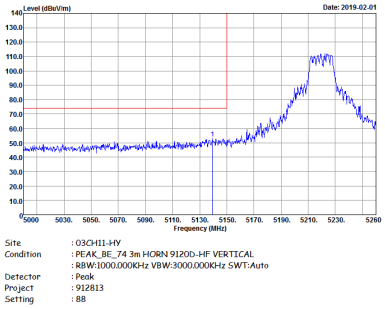
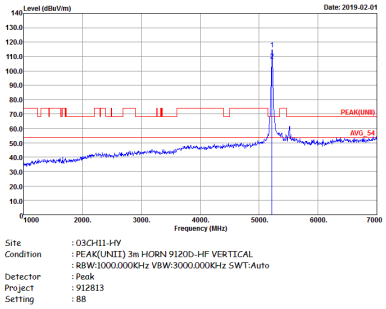
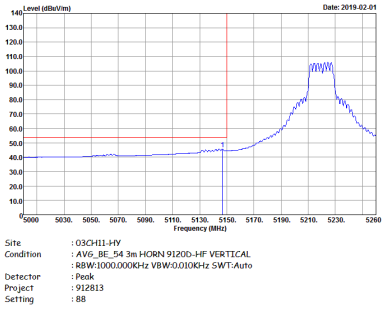
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

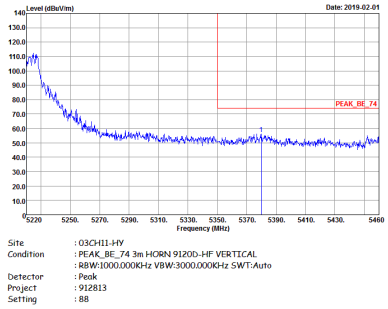
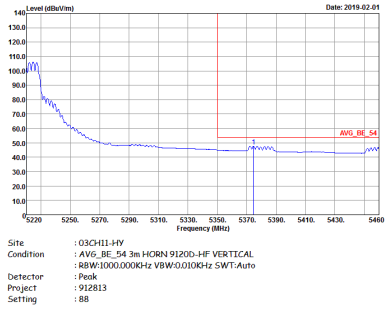
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

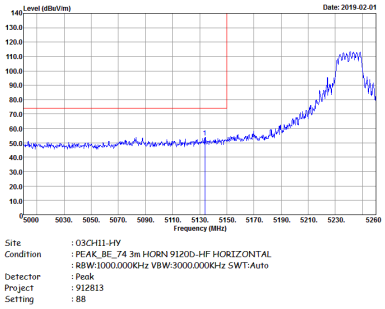
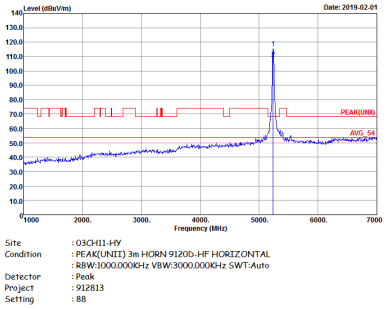
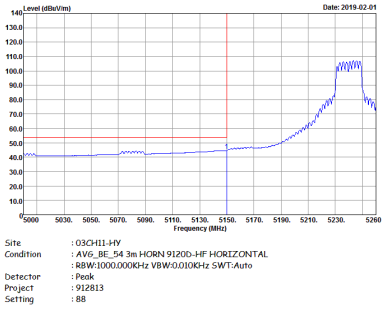
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

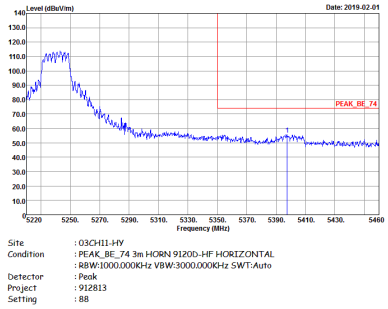
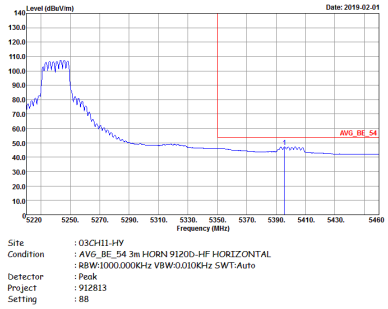
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

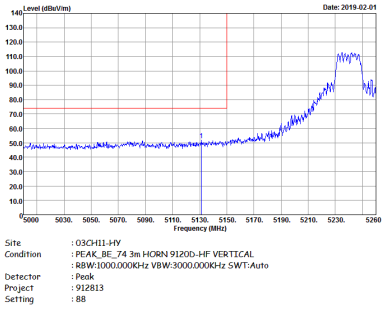
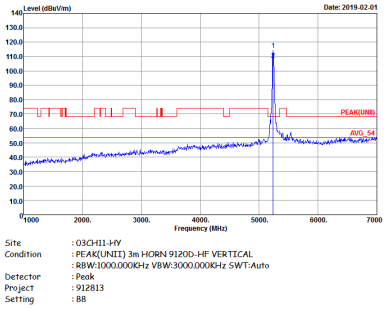
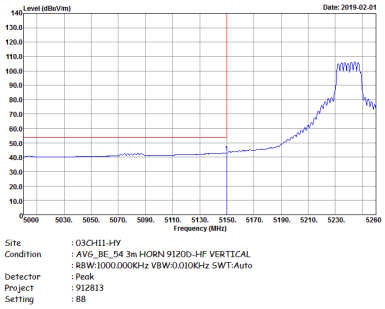
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

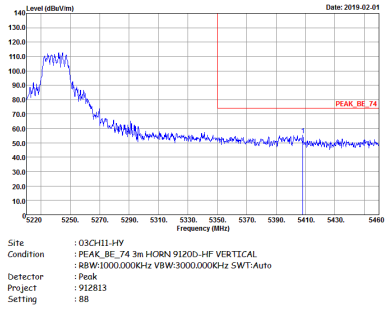
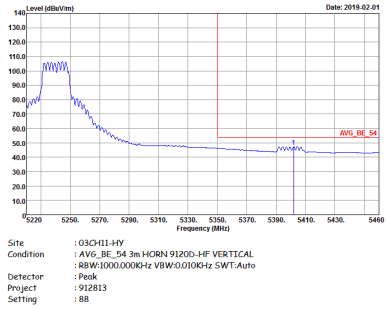
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

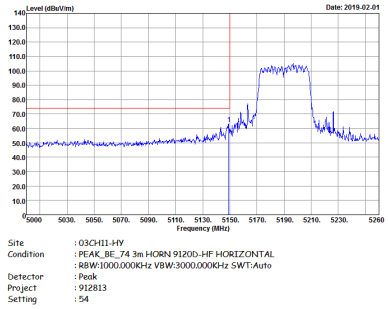
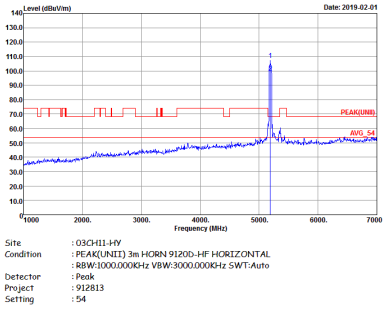
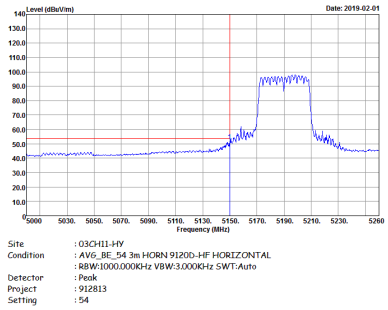
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

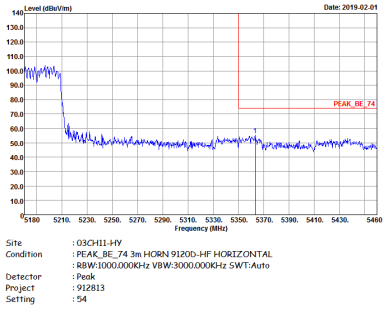
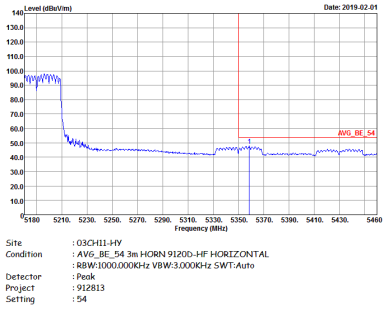
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

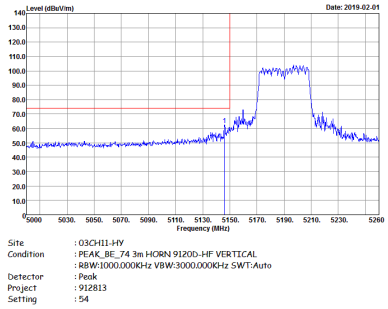
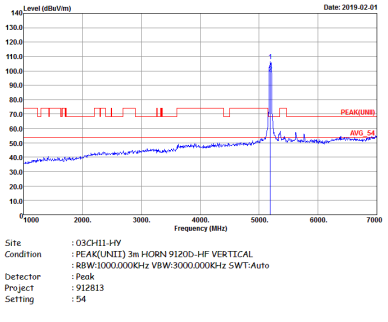
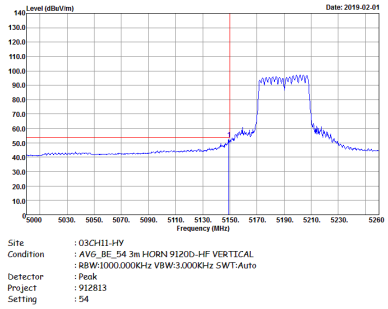
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

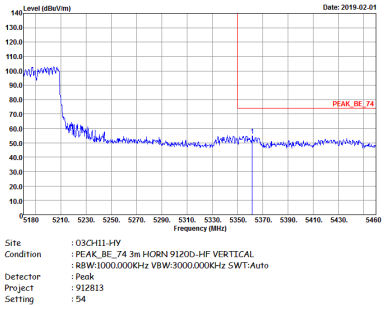
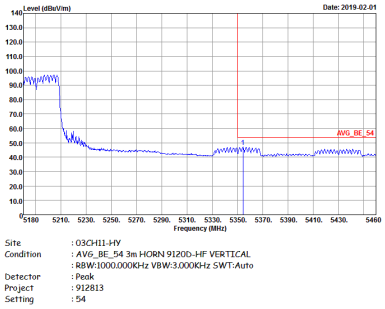
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

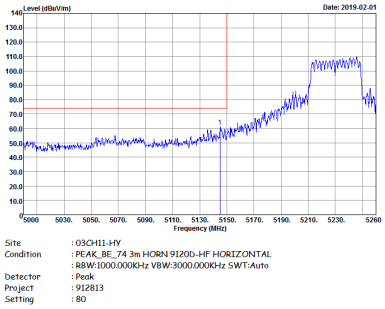
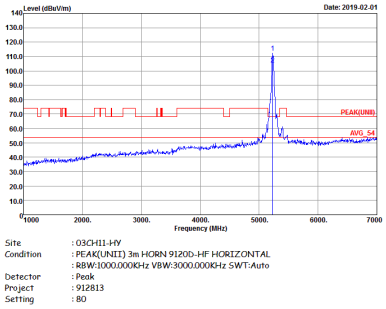
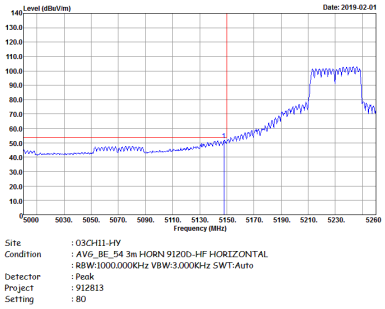
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

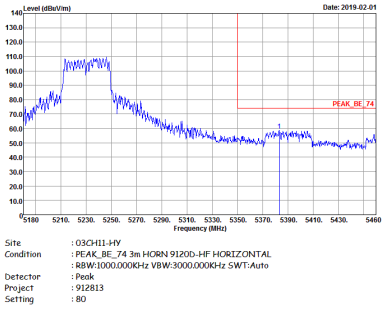
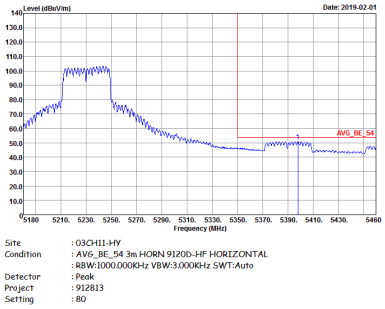
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

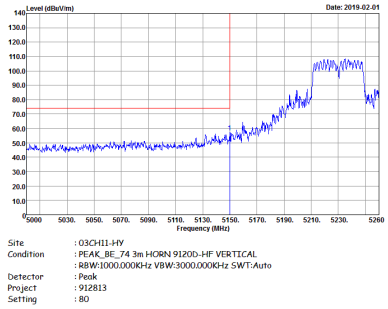
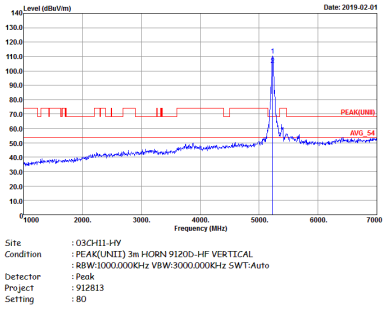
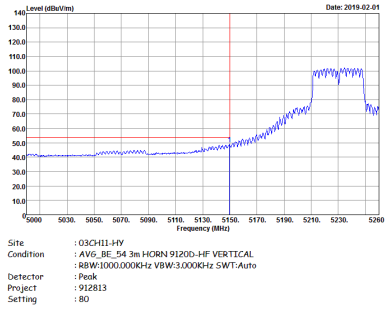
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

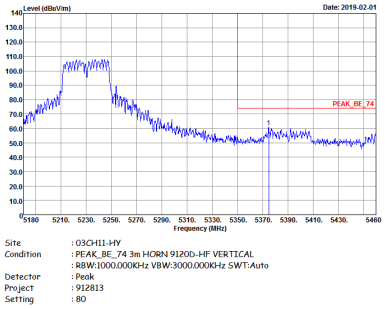
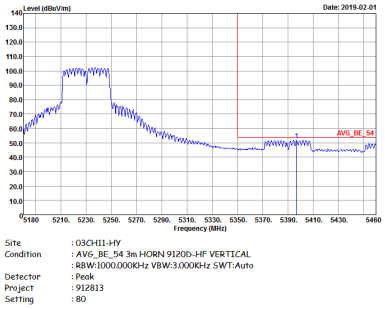
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

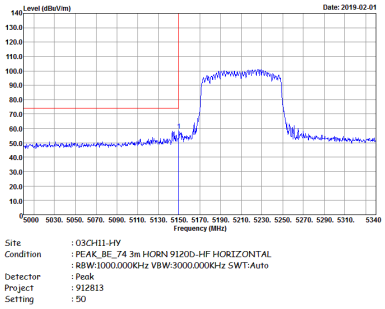
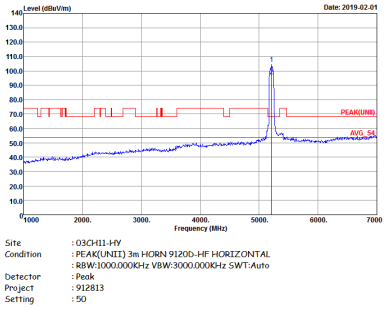
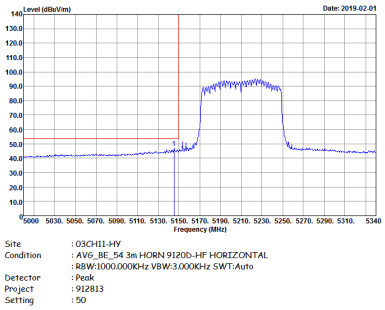
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

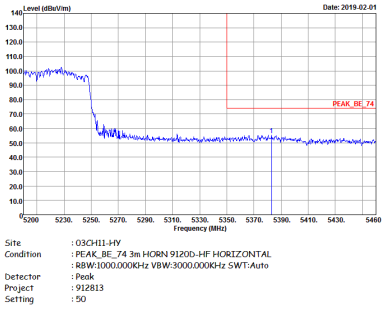
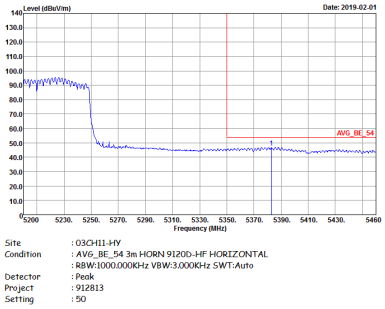
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

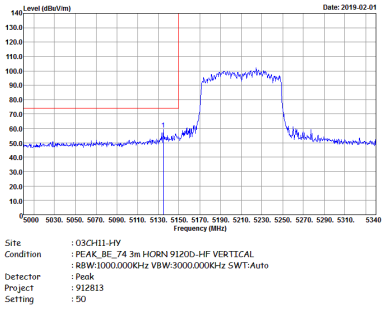
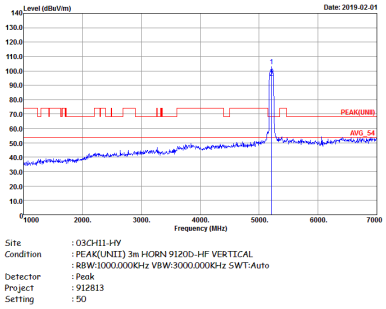
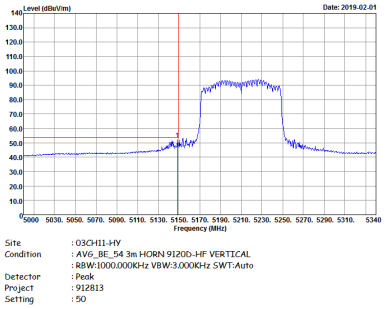
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

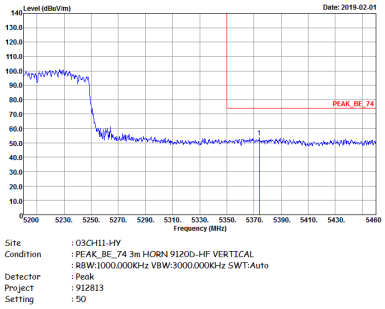
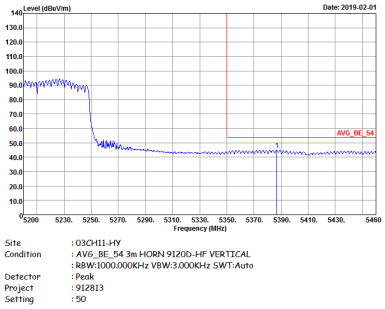
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

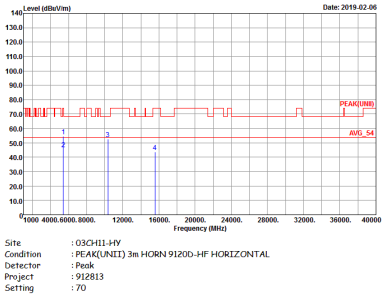
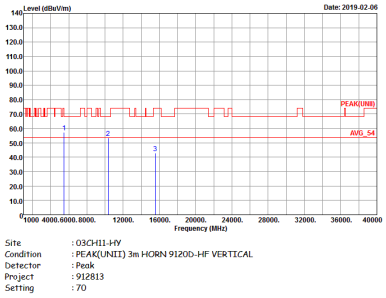
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

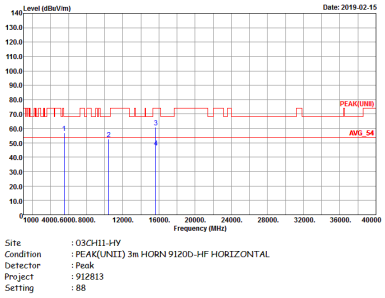
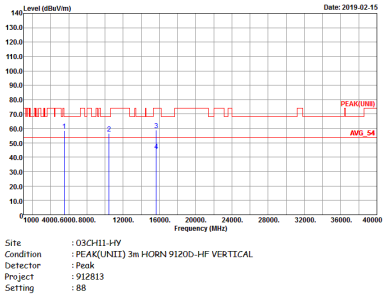
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

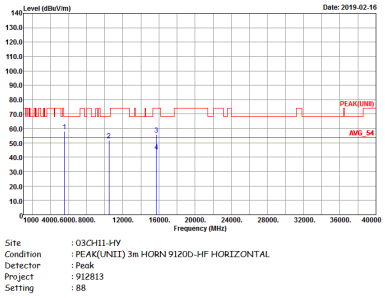
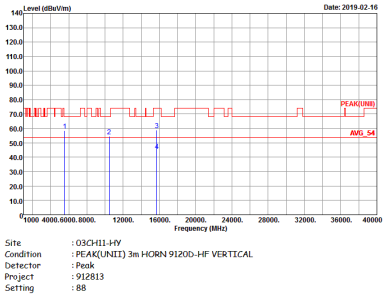
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

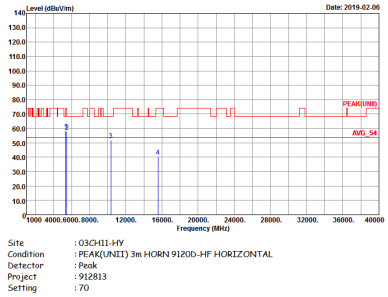
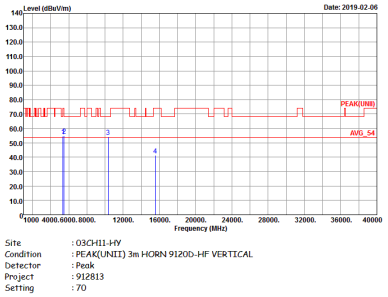
WIFI 802.11a (Harmonic @ 3m)

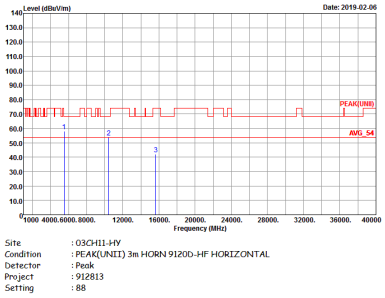
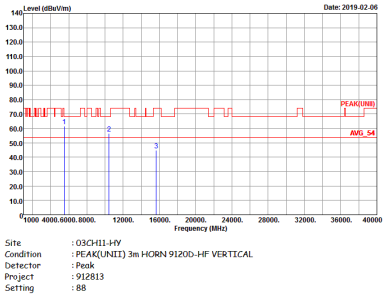
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

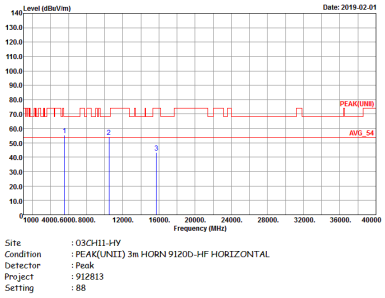
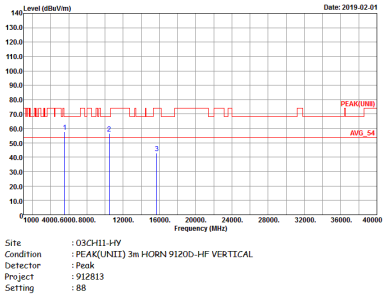
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

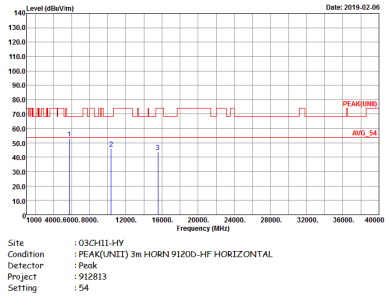
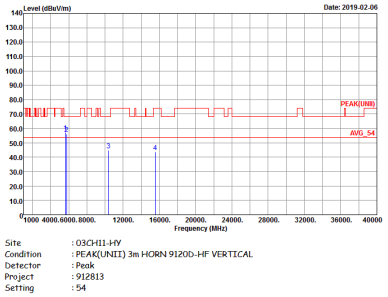
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

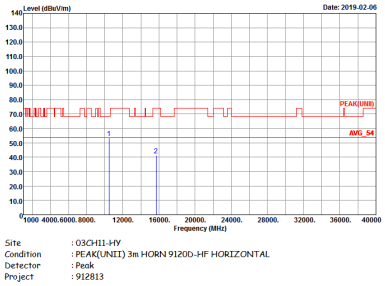
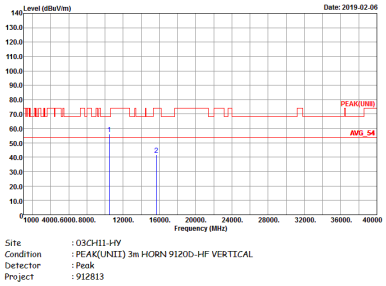
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 912813 Setting : 88	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 912813 Setting : 88

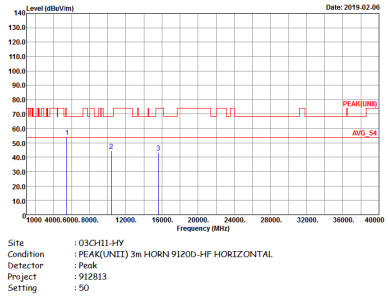
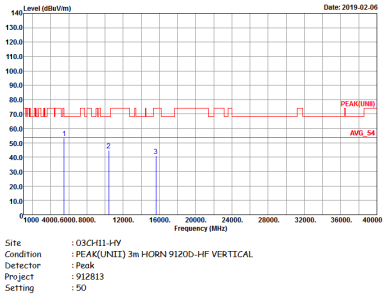
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 912813 Setting : 88	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 912813 Setting : 88

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.		

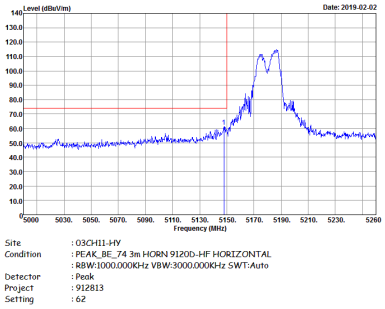
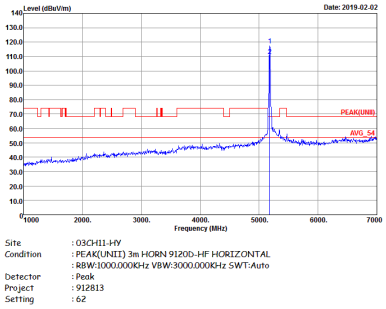
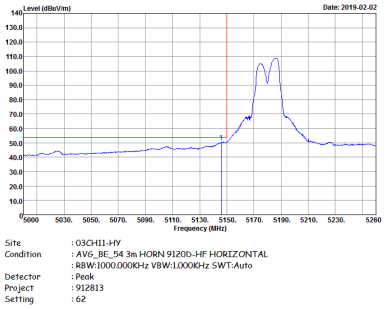
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

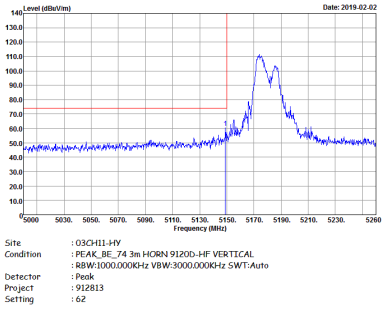
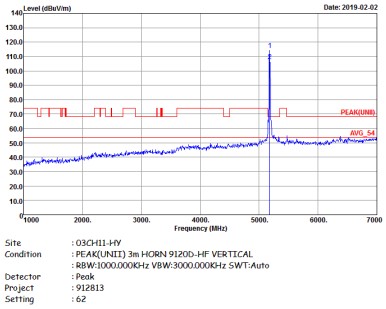
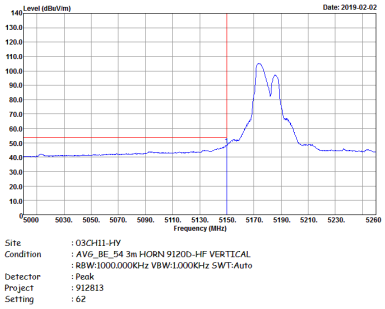
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

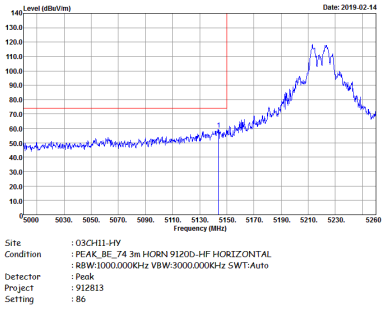
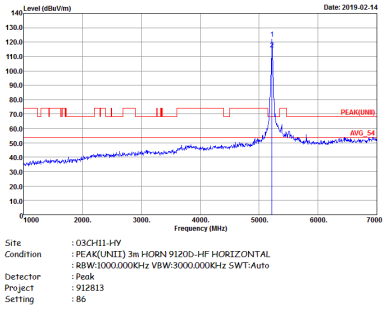
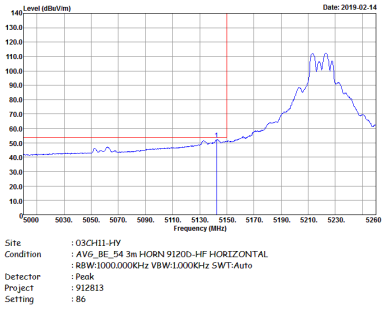
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

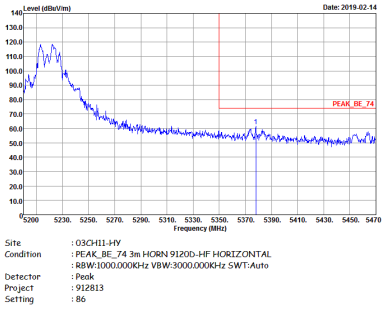
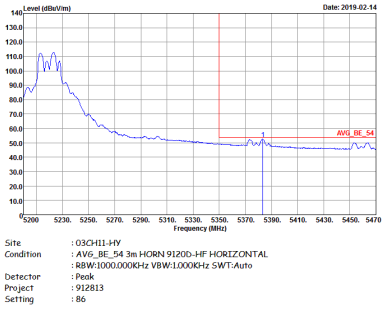
Band 1 - 5150~5250MHz

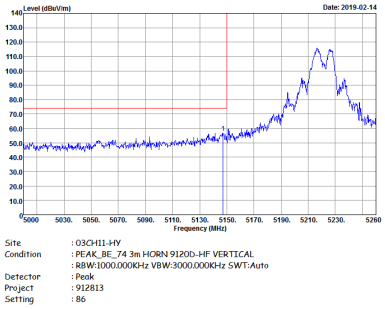
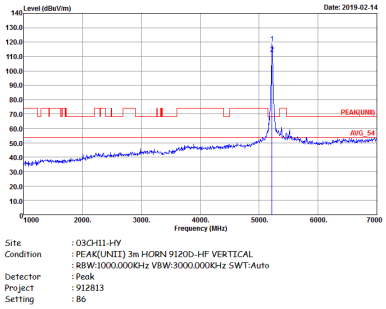
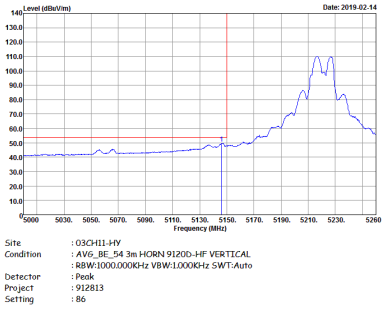
WIFI 802.11a (Band Edge @ 3m)

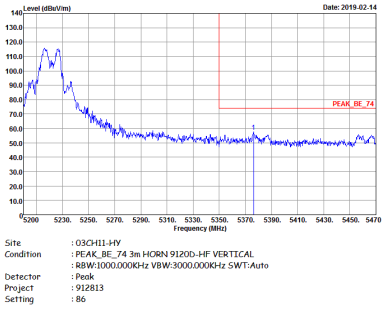
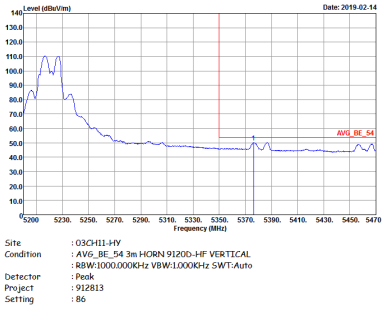
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

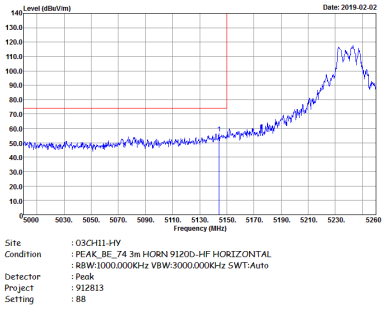
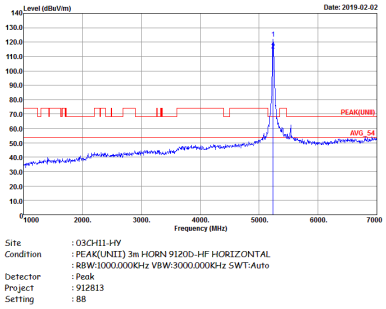
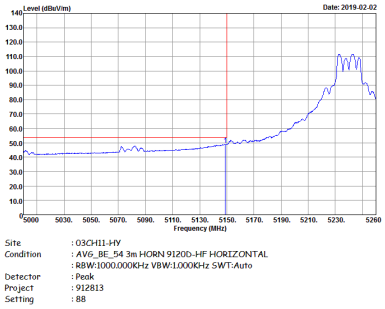
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

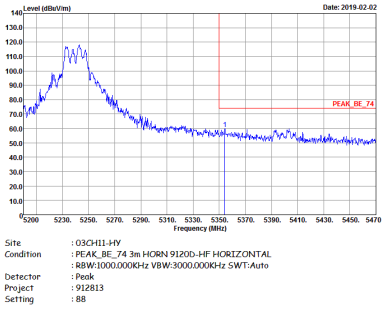
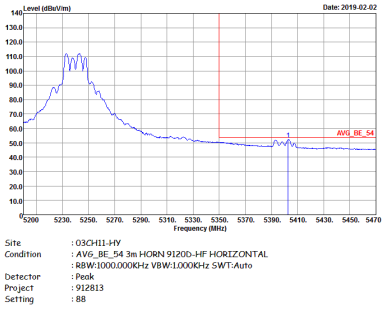
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

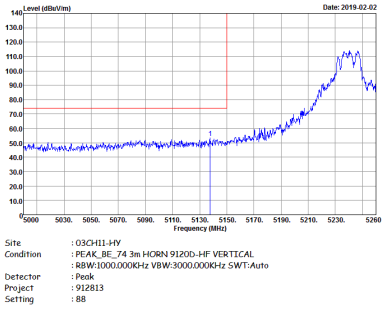
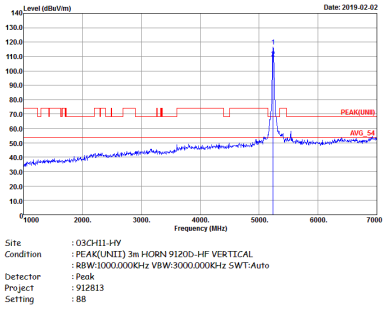
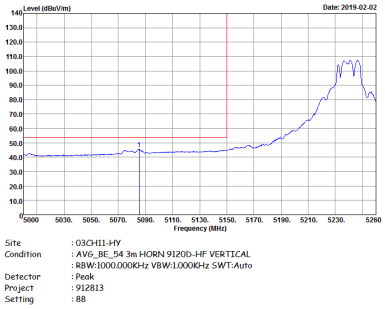
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

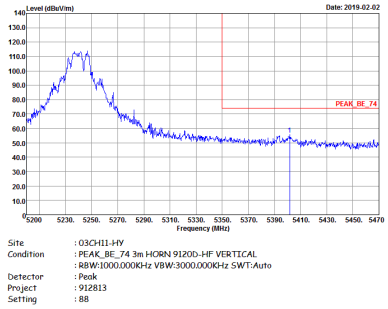
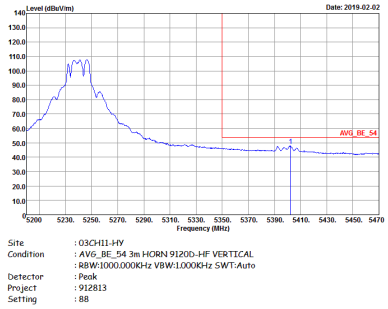
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

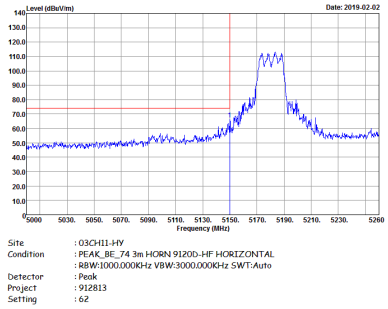
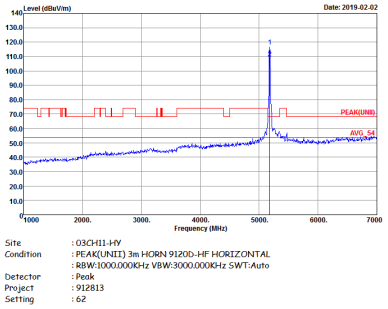
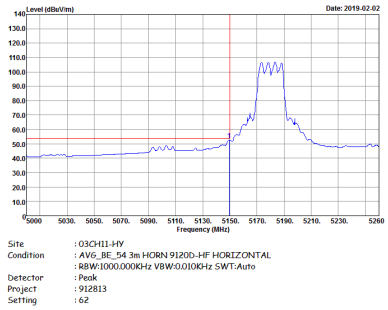
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

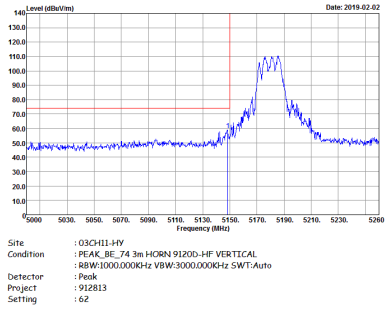
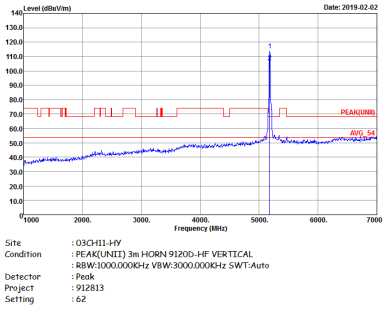
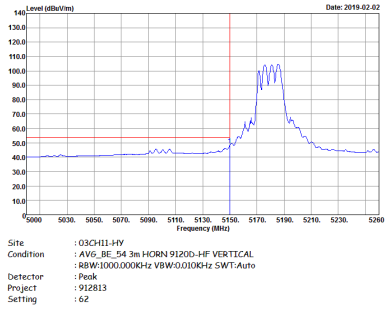
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

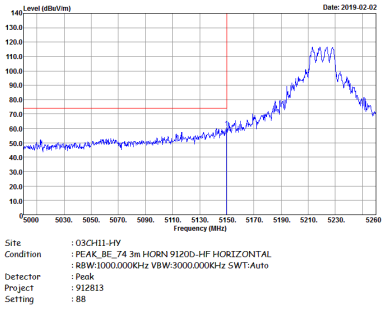
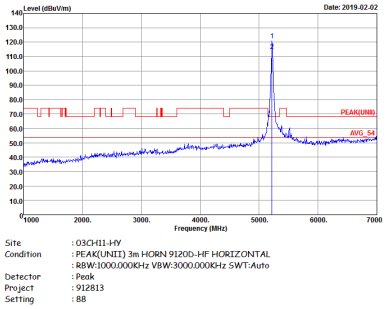
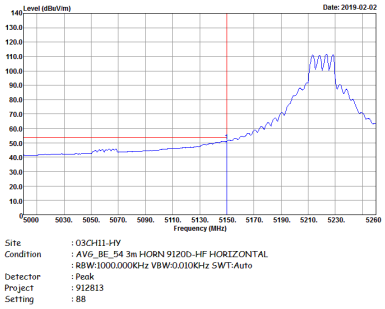
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

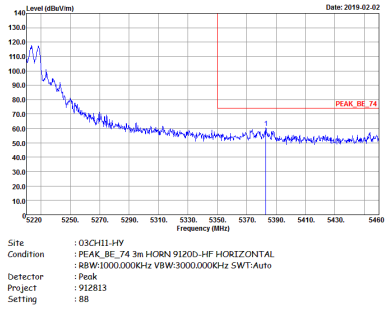
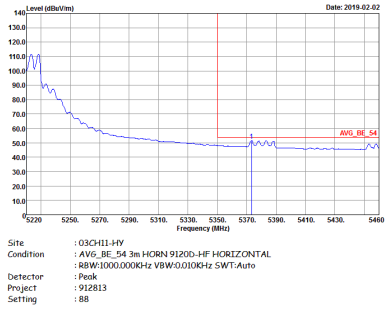
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

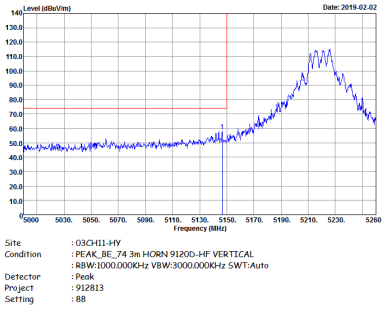
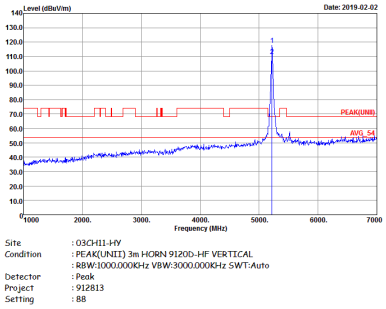
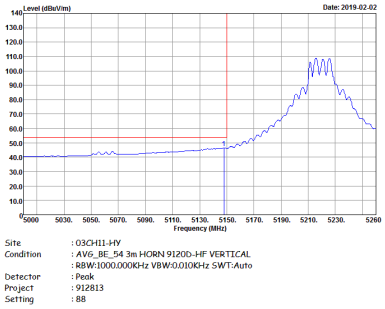
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

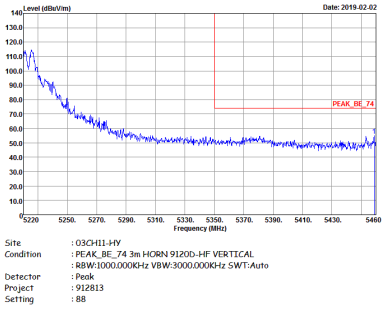
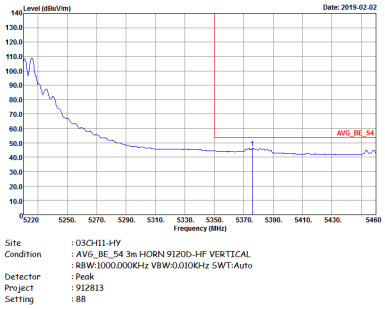
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

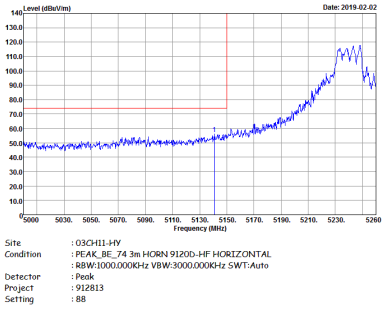
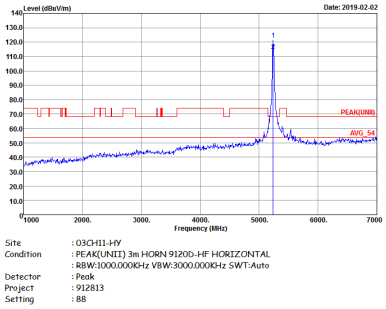
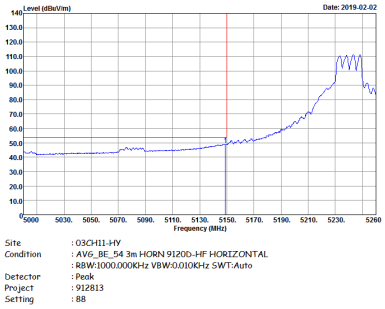
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

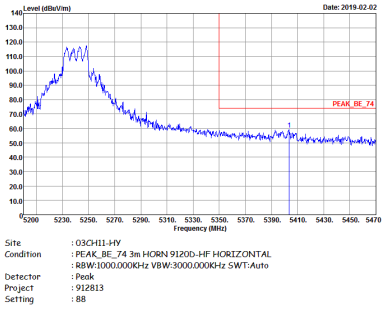
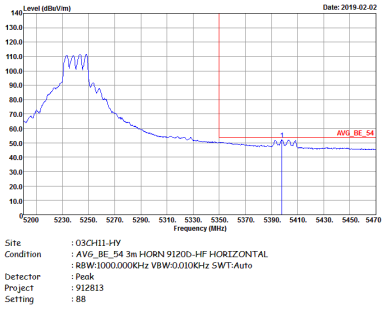
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

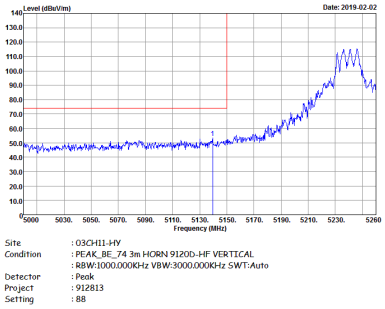
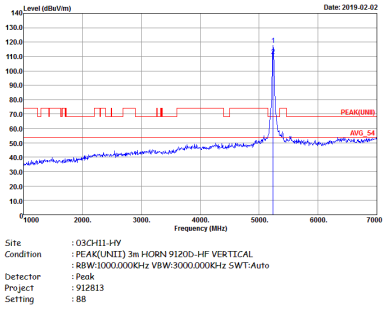
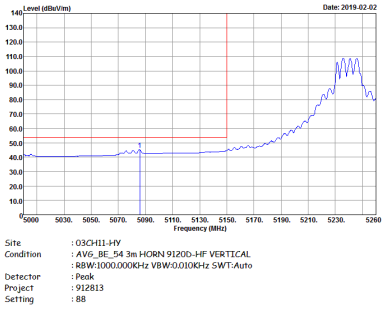
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

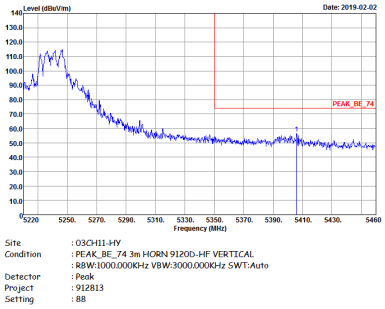
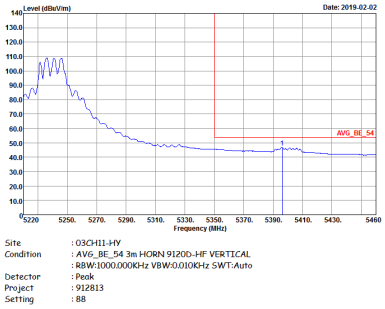
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

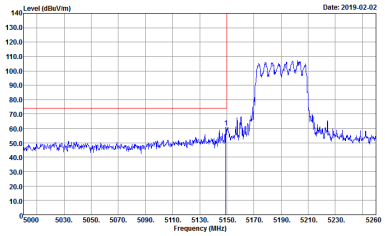
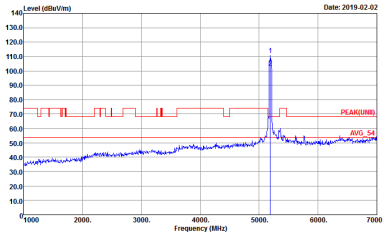
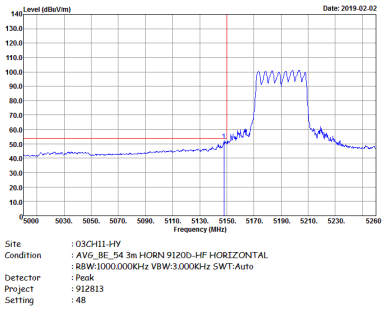
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

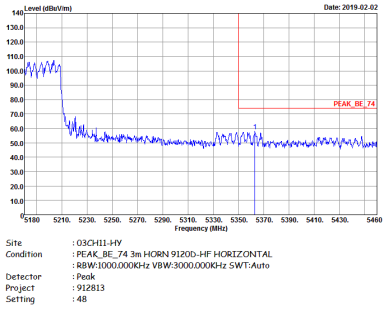
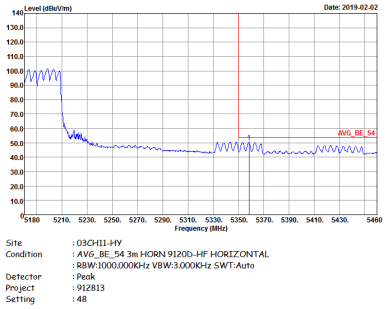
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

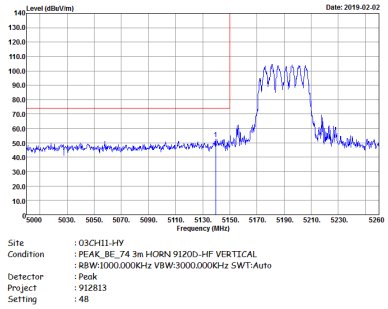
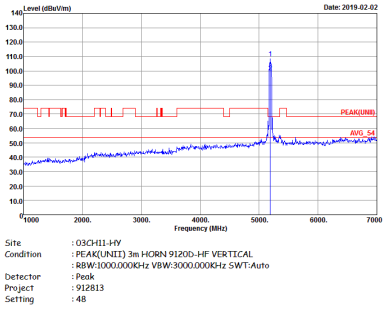
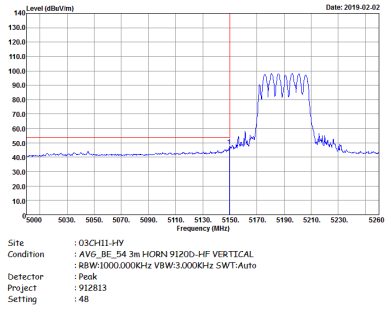
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

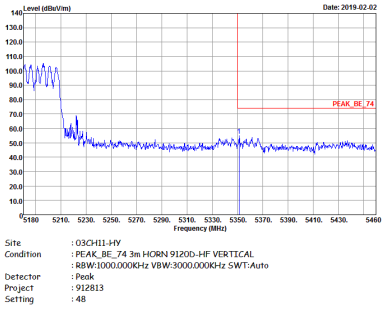
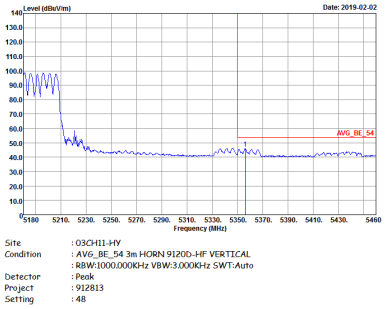
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

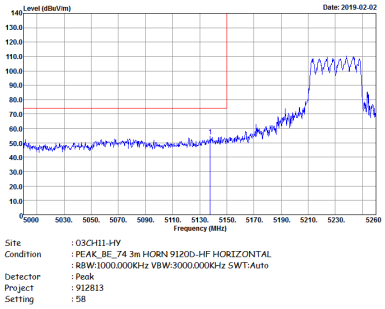
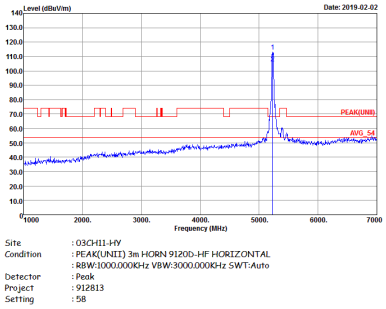
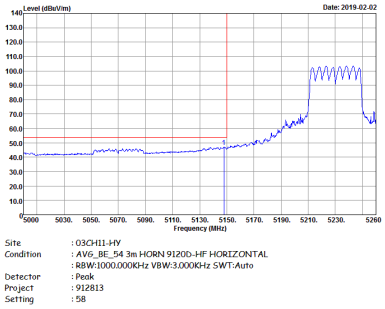
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

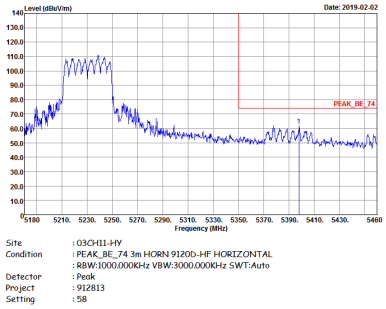
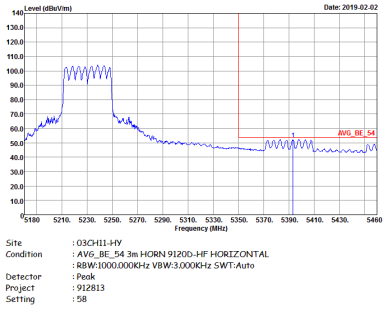
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

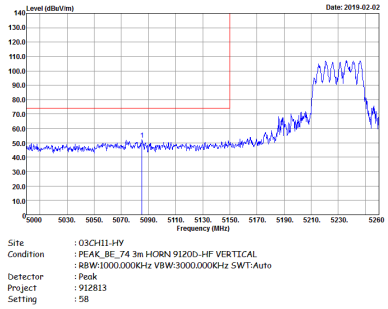
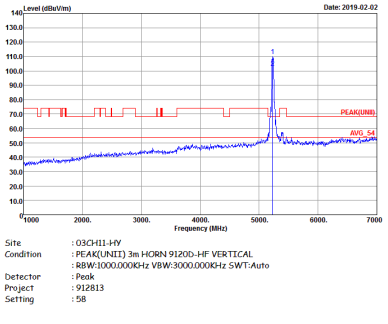
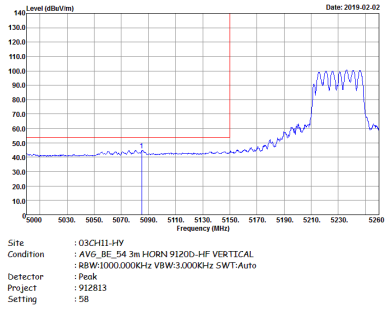
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

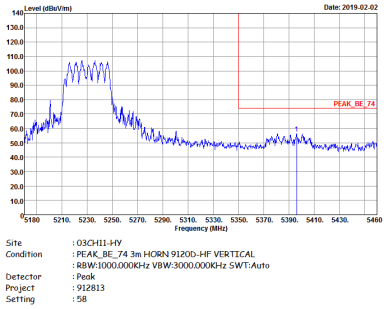
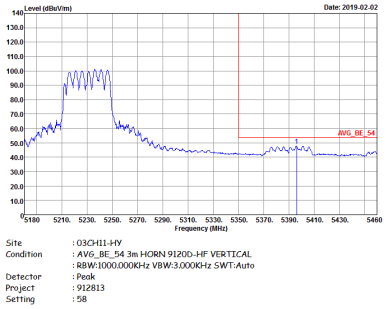
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

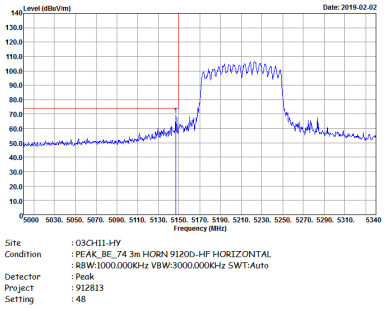
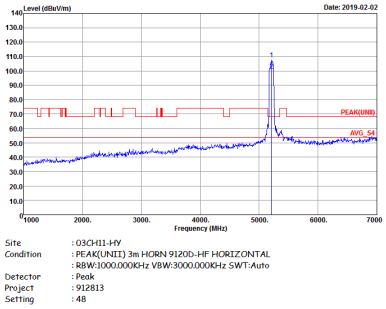
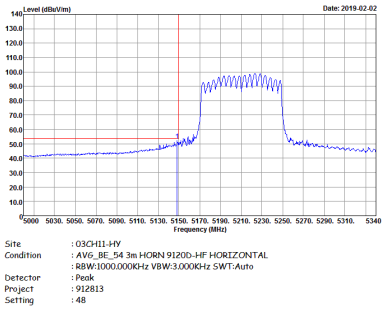
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

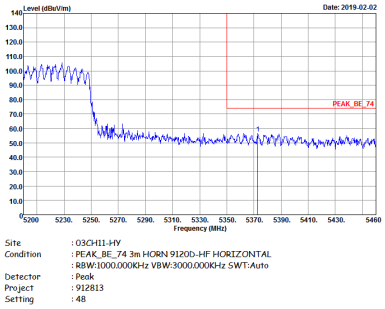
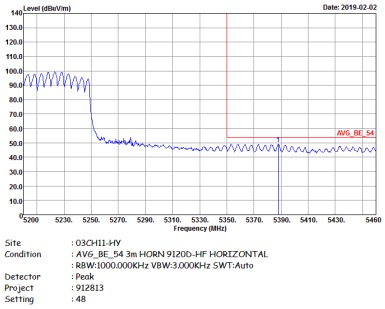
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

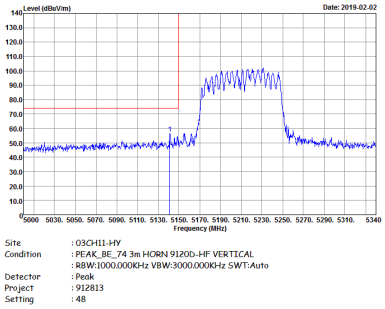
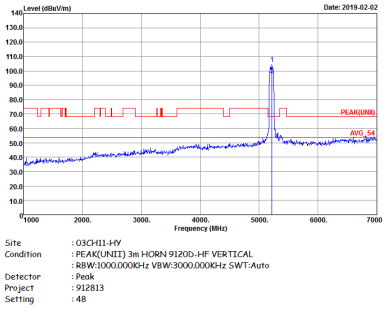
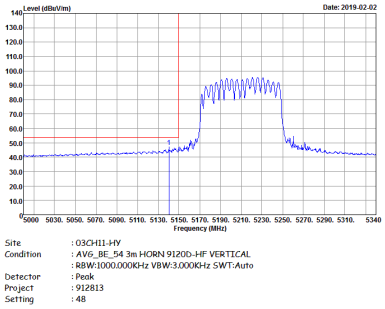
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2+3	Vertical	Fundamental
Peak		Left blank
Avg.		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+2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2+3	Vertical	Fundamental
Peak		
Avg.		Left blank