FCC RADIO TEST REPORT

FCC ID	:	**TVE-3417T0695A**
Equipment	:	**Network Security Gateway**
Brand Name	:	**FORTINET**
Model Name	:	**FWF-80F-2Rxxxxxx, FortiWiFi 80F-2Rxxxxxx, FORTIWIFI-80F-2Rxxxxxx** **FWF-81F-2Rxxxxxx, FortiWiFi 81F-2Rxxxxxx, FORTIWIFI-81F-2Rxxxxxx** **FWF-80F-2R-3G4G-DSLxxxxxx, FortiWiFi 80F-2R-3G4G-DSLxxxxxx, FORTIWIFI-80F-2R-3G4G-DSLxxxxxx** **FWF-81F-2R-3G4G-DSLxxxxxx, FortiWiFi 81F-2R-3G4G-DSLxxxxxx, FORTIWIFI-81F-2R-3G4G-DSLxxxxxx** **(where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)**
Marketing Name	:	**FortiWiFi 80F-2R, FortiWiFi 81F-2R, FortiWiFi 80F-2R-3G4G-DSL, FortiWiFi 81F-2R-3G4G-DSL**
Applicant	:	**Fortinet Inc.** **899 KIFER RD** **SUNNYVALE CA 94086** **UNITED STATES**
Manufacturer	:	**Fortinet Inc.** **899 KIFER RD** **SUNNYVALE CA 94086** **UNITED STATES**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jan. 19, 2021 and testing was started from Mar. 08, 2021 and completed on Apr. 22, 2021. 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 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.

Louis Wu

Approved by: Louis Wu

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR111826-01	01	Initial issue of report	Jul. 21, 2021

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 0.15 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 9.36 dB at 0.429 MHz
3.6	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: Yun Huang

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	**WLAN:** <Ant. 1> Dipole Antenna <Ant. 2> Dipole Antenna <Ant. 3> Dipole Antenna **Bluetooth - LE:** <Ant. 4> PIFA Antenna

Antenna information		
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 2.60 Ant. 2: 2.60 Ant. 3: 2.60
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 2.01 Ant. 2: 2.01 Ant. 3: 2.01

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

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. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY (TAF Code: 3786)
Remark	The Radiated Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC designation No.: TW1190 and TW3786

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. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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). The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in in two degrees (Ant. Horizontal and Ant. Vertical), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Ant. Horizontal as worst plane.

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

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

Single Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Remark: The device have support beamforming function in 802.11 ac/ax mode, the manufacturer defines worst case were Non Beamforming, other test items only test worst case and documented.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Adapter*2 Mode 2 : WLAN (5GHz) Idle + Bluetooth Idle + Adapter*2
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

<Ant. 2>

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40
L	Low	54	102
M	Middle	-	110
H	High	62	134
Straddle		-	142

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80
L	Low	-	106
M	Middle	58	-
H	High	-	122
Straddle		-	138

MIMO <Ant. 1+3>

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

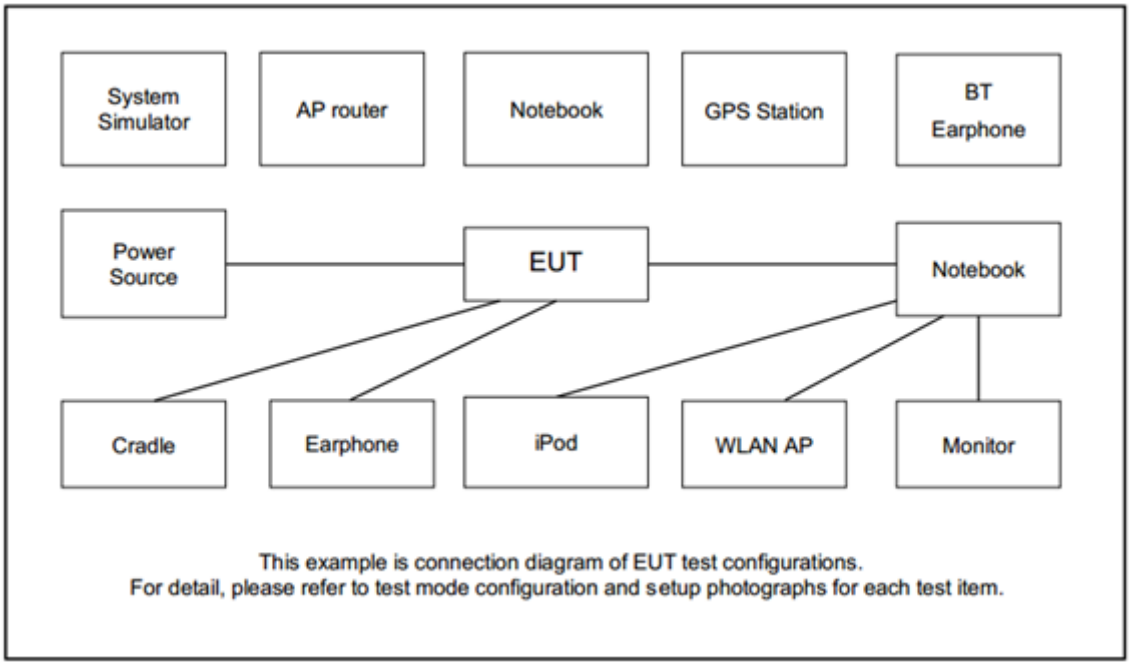
Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE20	802.11ax HE20
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE40	802.11ax HE40
L	Low	54	102
M	Middle	-	110
H	High	62	134
Straddle		-	142

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80
L	Low	-	106
M	Middle	58	-
H	High	-	122
Straddle		-	138

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A
2.	Notebook	Dell	Latitude 3400	FCC DoC	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 “QSPR Version 5.0-00196” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

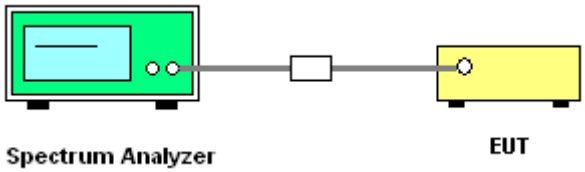
3.1.2 Measuring Instruments

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.

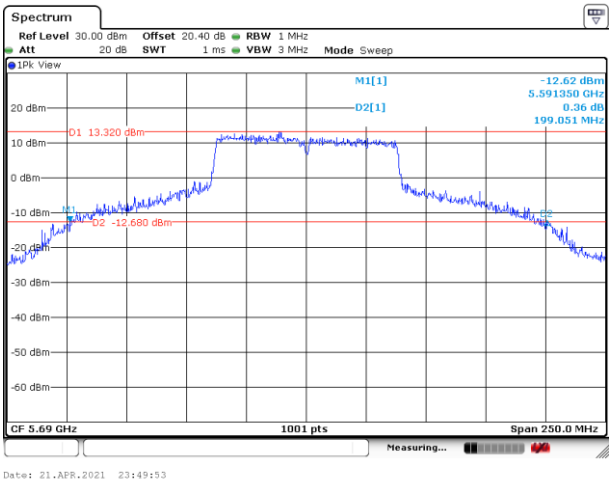
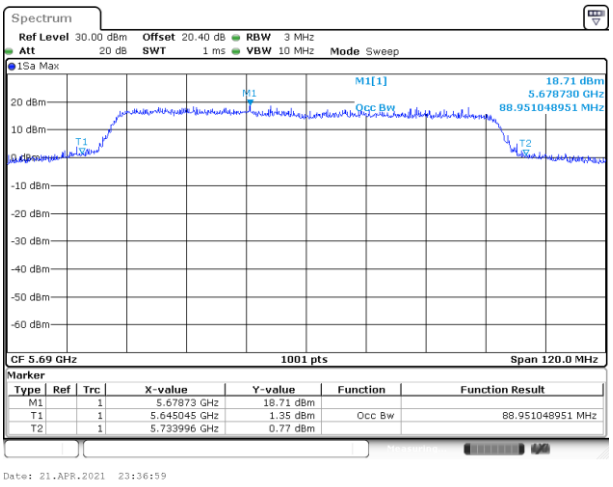
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

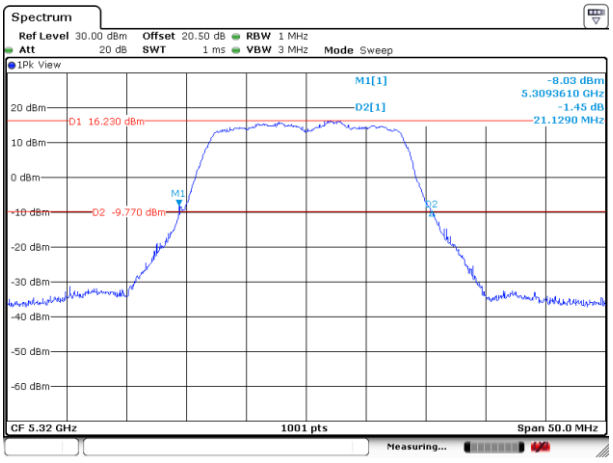
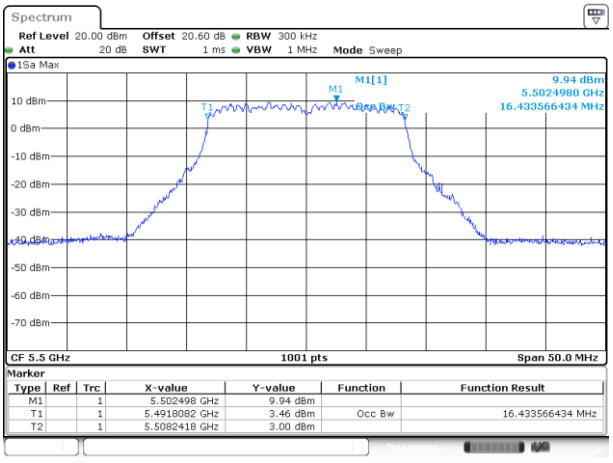
Please refer to Appendix A.

<Ant. 2>

Maximum 26dB Bandwidth	Maximum 99% Occupied Bandwidth
	

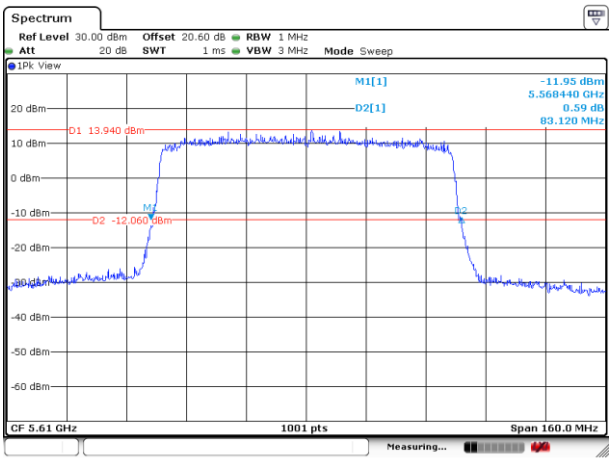
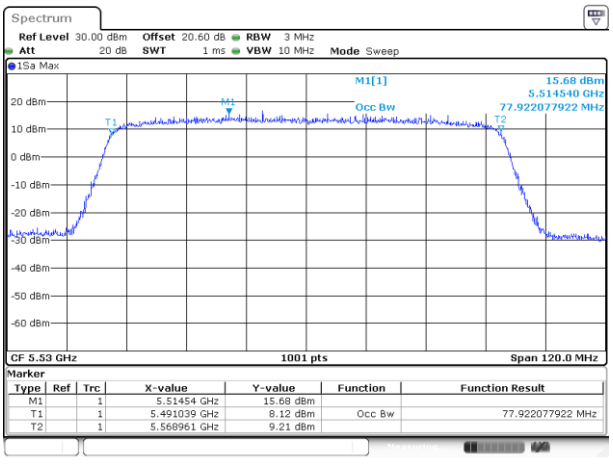
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

MIMO <Ant. 1+3>

Maximum 26dB Bandwidth	Maximum 99% Occupied Bandwidth
	

MIMO <Ant. 1+3>

<802.11ax 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 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

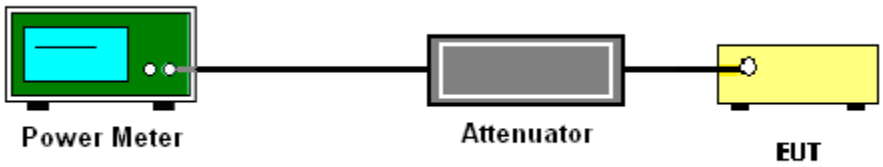
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

 # Method SA-3 #

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

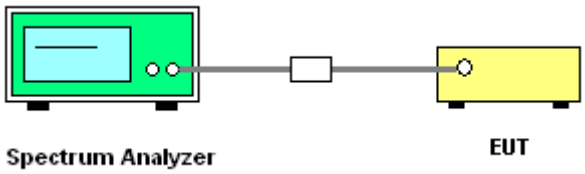
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which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

3.3.4 Test Setup

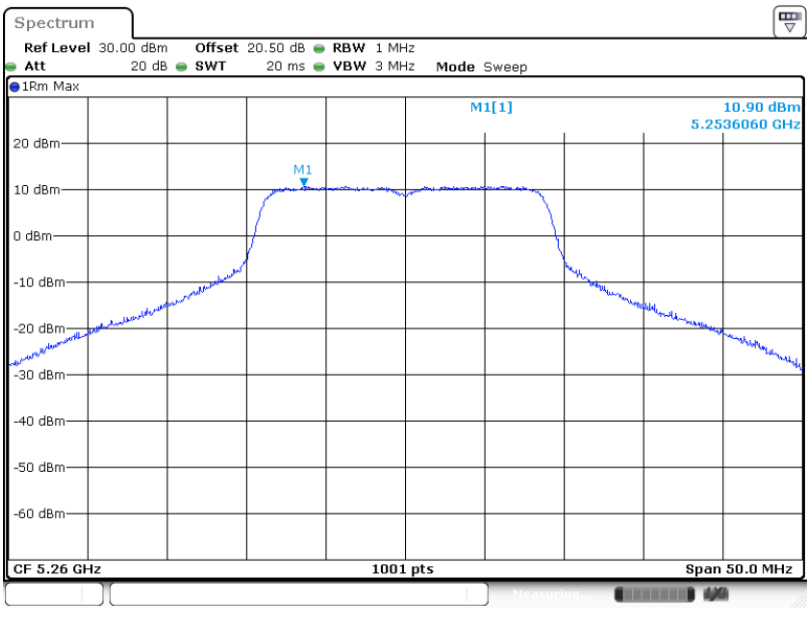


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

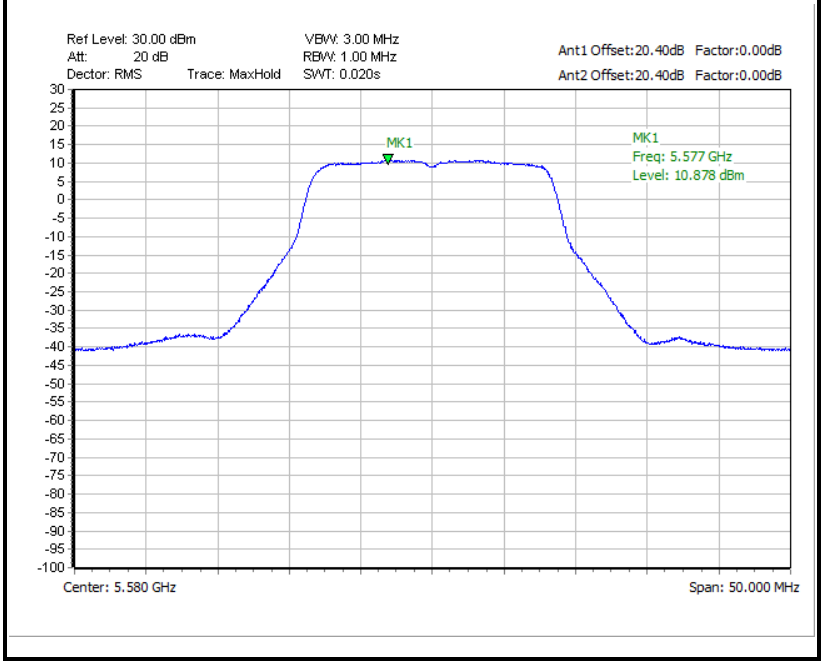
<Ant. 2>

Worst Case Power Density (dBm/MHz)



MIMO <Ant. 1+3>

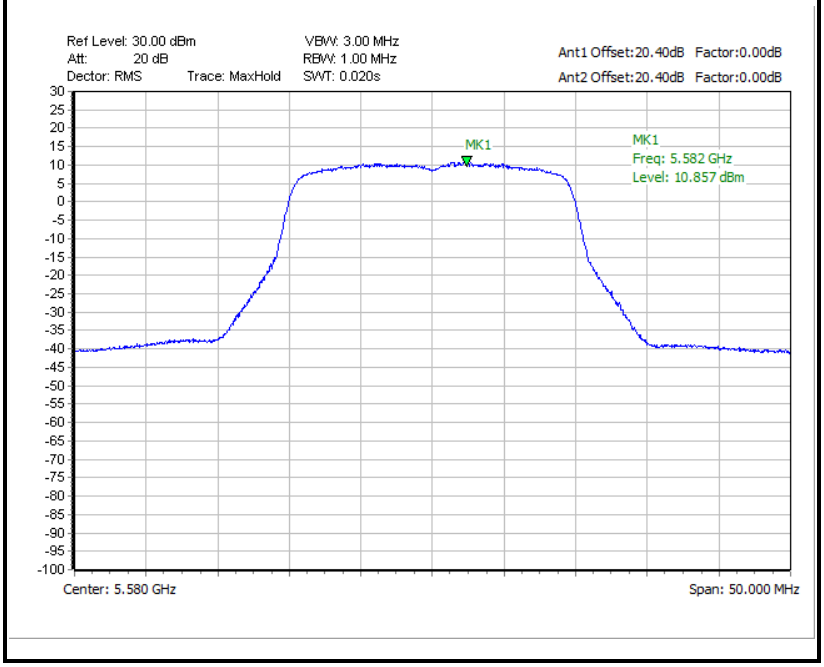
Worst Case Power Density (dBm/MHz)



MIMO <Ant. 1+3>

<802.11ax Modes>

Worst Case Power Density (dBm/MHz))



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 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions fallen in restricted bands 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) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.
(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

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 1000 MHz

- 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

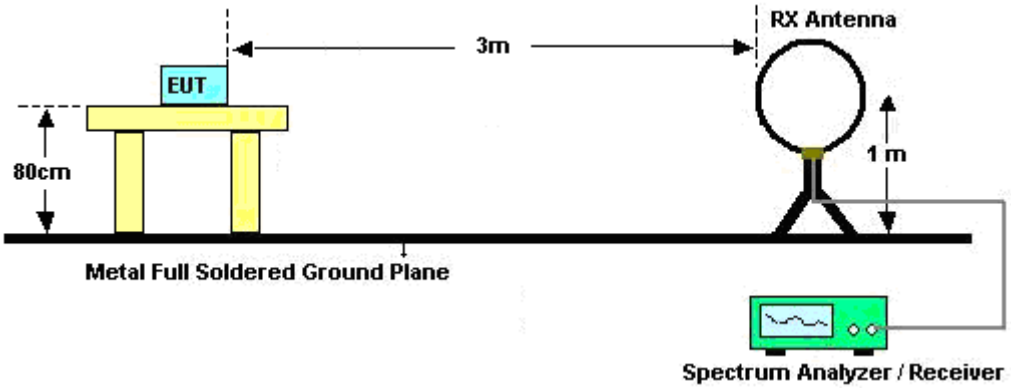
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

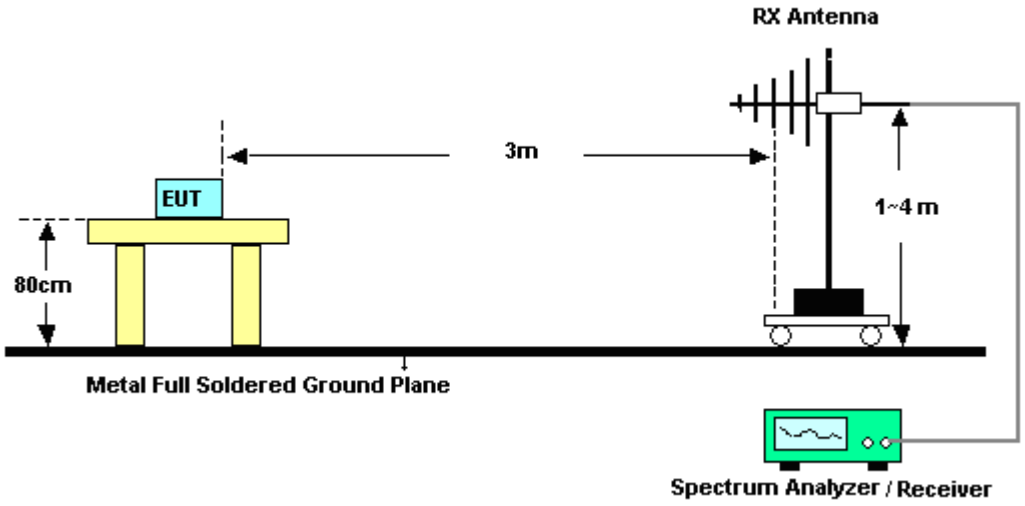
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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 1 GHz, 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 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

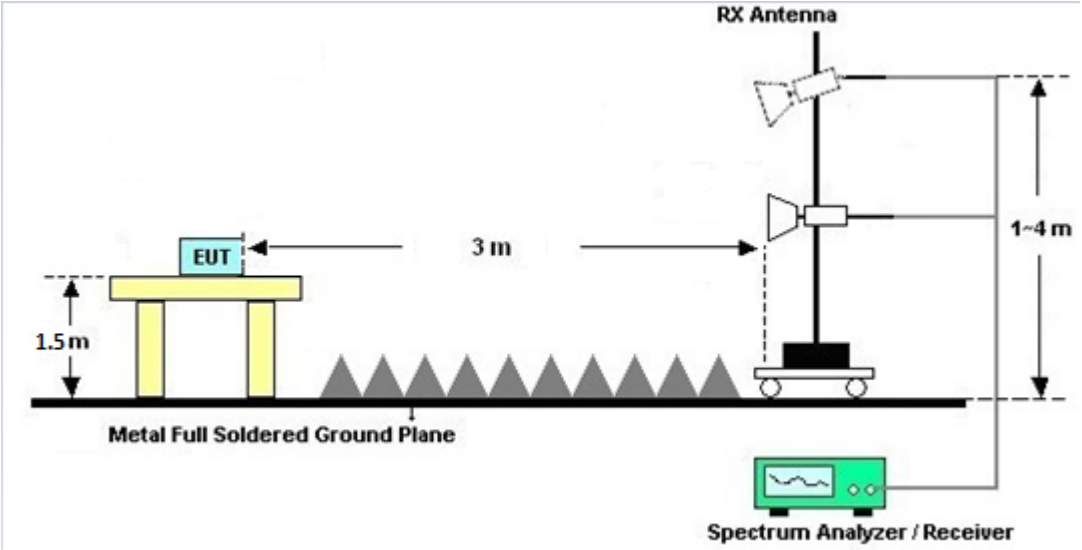
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



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

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

There is adequate comparison measurement 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.

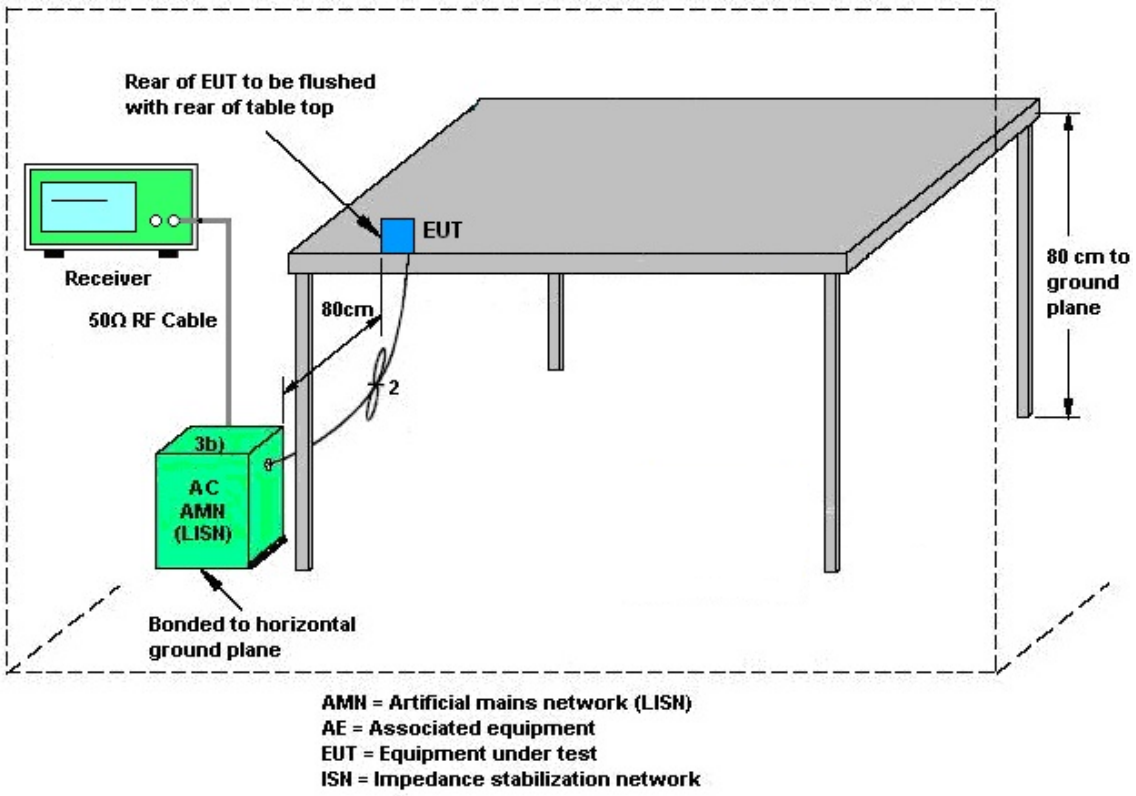
3.5.2 Measuring Instruments

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 shall 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 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<Ant. 2>

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

For MIMO <Ant. 1+3>

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

	Ant. 1 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band II	2.60	2.60	2.60	5.61	0.00	0.00
Band III	2.01	2.01	2.01	5.02	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Mar. 14, 2021~ Apr. 14, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Mar. 14, 2021~ Apr. 14, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Mar. 14, 2021~ Apr. 14, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	Mar. 14, 2021~ Apr. 14, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	Mar. 14, 2021~ Apr. 14, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~40GHz	May 22, 2020	Mar. 14, 2021~ Apr. 14, 2021	May 21, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 10, 2020	Mar. 14, 2021~ Apr. 14, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY59053012	3Hz~26.5GHz	Nov. 18, 2020	Mar. 14, 2021~ Apr. 14, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Mar. 14, 2021~ Apr. 14, 2021	Jan. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	Mar. 14, 2021~ Apr. 14, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	Mar. 14, 2021~ Apr. 14, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 29, 2020	Mar. 14, 2021~ Apr. 14, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Mar. 14, 2021~ Apr. 14, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 14, 2021~ Apr. 14, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 14, 2021~ Apr. 14, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 14, 2021~ Apr. 14, 2021	N/A	Radiation (03CH16-HY)
Hygrometer	Testo	608-H1	34913904	N/A	Jul. 27, 2020	Mar. 13, 2021~ Apr. 22, 2021	Jul. 26, 2021	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 09, 2020	Mar. 13, 2021~ Apr. 22, 2021	Dec. 08, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Mar. 13, 2021~ Apr. 22, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Switch Control Manframe	EM Electronics	EMSW18	SW1070903	N/A	Aug. 16, 2020	Mar. 13, 2021~ Apr. 22, 2021	Aug. 15, 2021	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 08, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Mar. 08, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Mar. 08, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Mar. 08, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 08, 2021	N/A	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Mar. 08, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Mar. 08, 2021	Feb. 24, 2022	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.5 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21.3~24.6	°C
Test Date:	2021/3/13~2021/4/22	Relative Humidity:	46.2~59.6	%

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 2	Ant 2	Ant 2	Ant 2	Ant 2	
11a	6Mbps	1	52	5260	17.53	28.10	23.44	29.44	23.98	
11a	6Mbps	1	60	5300	17.18	27.40	23.35	29.35	23.98	
11a	6Mbps	1	64	5320	17.03	26.00	23.31	29.31	23.98	
HT20	MCS0	1	52	5260	18.78	31.35	23.74	29.74	23.98	
HT20	MCS0	1	60	5300	18.13	27.20	23.58	29.58	23.98	
HT20	MCS0	1	64	5320	18.13	26.45	23.58	29.58	23.98	
HT40	MCS0	1	54	5270	37.16	49.95	23.98	30.00	23.98	
HT40	MCS0	1	62	5310	37.36	48.96	23.98	30.00	23.98	
VHT80	MCS0	1	58	5290	78.28	105.60	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	52	5260	21.40	23.98	2.60	30	Pass
11a	6Mbps	1	60	5300	20.20	23.98	2.60	30	Pass
11a	6Mbps	1	64	5320	18.30	23.98	2.60	30	Pass
HT20	MCS0	1	52	5260	21.70	23.98	2.60	30	Pass
HT20	MCS0	1	60	5300	19.60	23.98	2.60	30	Pass
HT20	MCS0	1	64	5320	17.80	23.98	2.60	30	Pass
HT40	MCS0	1	54	5270	18.40	23.98	2.60	30	Pass
HT40	MCS0	1	62	5310	16.10	23.98	2.60	30	Pass
VHT20	MCS0	1	52	5260	21.60	23.98	2.60	30	Pass
VHT20	MCS0	1	60	5300	19.50	23.98	2.60	30	Pass
VHT20	MCS0	1	64	5320	17.70	23.98	2.60	30	Pass
VHT40	MCS0	1	54	5270	18.30	23.98	2.60	30	Pass
VHT40	MCS0	1	62	5310	16.00	23.98	2.60	30	Pass
VHT80	MCS0	1	58	5290	7.00	23.98	2.60	30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	52	5260	10.82	11.00	2.60		Pass
11a	6Mbps	1	60	5300	10.01	11.00	2.60		Pass
11a	6Mbps	1	64	5320	8.24	11.00	2.60		Pass
HT20	MCS0	1	52	5260	10.90	11.00	2.60		Pass
HT20	MCS0	1	60	5300	9.21	11.00	2.60		Pass
HT20	MCS0	1	64	5320	7.51	11.00	2.60		Pass
HT40	MCS0	1	54	5270	5.21	11.00	2.60		Pass
HT40	MCS0	1	62	5310	2.49	11.00	2.60		Pass
VHT80	MCS0	1	58	5290	-8.40	11.00	2.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)
					Ant 2	Ant 2	Ant 2	Ant 2	Ant 2	Ant 2
11a	6Mbps	1	100	5500	17.03	26.25	23.31	29.31	23.98	----
11a	6Mbps	1	116	5580	26.02	44.40	23.98	30.00	23.98	----
11a	6Mbps	1	140	5700	17.23	26.45	23.36	29.36	23.98	----
HT20	MCS0	1	100	5500	18.13	26.20	23.58	29.58	23.98	----
HT20	MCS0	1	116	5580	26.87	46.05	23.98	30.00	23.98	----
HT20	MCS0	1	140	5700	18.18	26.65	23.60	29.60	23.98	----
HT40	MCS0	1	102	5510	37.16	48.87	23.98	30.00	23.98	----
HT40	MCS0	1	110	5550	37.46	52.29	23.98	30.00	23.98	----
HT40	MCS0	1	134	5670	37.86	62.28	23.98	30.00	23.98	----
VHT80	MCS0	1	106	5530	78.16	101.28	23.98	30.00	23.98	----
VHT80	MCS0	1	122	5610	78.28	102.88	23.98	30.00	23.98	----

Band III straddle channel single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)
					Ant 2	Ant 2	Ant 2	Ant 2	Ant 2	Ant 2
11a	6Mbps	1	144	5720	21.83	28.98	23.98	30.00	23.98	3.15
HT20	MCS0	1	144	5720	22.48	31.37	23.98	30.00	23.98	3.8
HT40	MCS0	1	142	5710	52.96	71.04	23.98	30.00	23.98	3.18
VHT80	MCS0	1	138	5690	79.95	133.65	23.98	30.00	23.98	0.04

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	100	5500	18.50	23.98	2.01	30	Pass
11a	6Mbps	1	116	5580	21.00	23.98	2.01	30	Pass
11a	6Mbps	1	140	5700	17.40	23.98	2.01	30	Pass
HT20	MCS0	1	100	5500	18.40	23.98	2.01	30	Pass
HT20	MCS0	1	116	5580	21.20	23.98	2.01	30	Pass
HT20	MCS0	1	140	5700	17.30	23.98	2.01	30	Pass
HT40	MCS0	1	102	5510	16.90	23.98	2.01	30	Pass
HT40	MCS0	1	110	5550	19.10	23.98	2.01	30	Pass
HT40	MCS0	1	134	5670	19.60	23.98	2.01	30	Pass
VHT20	MCS0	1	100	5500	18.30	23.98	2.01	30	Pass
VHT20	MCS0	1	116	5580	21.10	23.98	2.01	30	Pass
VHT20	MCS0	1	140	5700	17.20	23.98	2.01	30	Pass
VHT40	MCS0	1	102	5510	16.80	23.98	2.01	30	Pass
VHT40	MCS0	1	110	5550	19.00	23.98	2.01	30	Pass
VHT40	MCS0	1	134	5670	19.50	23.98	2.01	30	Pass
VHT80	MCS0	1	106	5530	14.40	23.98	2.01	30	Pass
VHT80	MCS0	1	122	5610	18.40	23.98	2.01	30	Pass

FCC Band III straddle channel single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	144	5720	20.90	23.98	2.01	30	Pass
HT20	MCS0	1	144	5720	21.10	23.98	2.01	30	Pass
HT40	MCS0	1	142	5710	21.80	23.98	2.01	30	Pass
VHT20	MCS0	1	144	5720	21.00	23.98	2.01	30	Pass
VHT40	MCS0	1	142	5710	21.70	23.98	2.01	30	Pass
VHT80	MCS0	1	138	5690	21.20	23.98	2.01	30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	100	5500	7.97	11.00	2.01		Pass
11a	6Mbps	1	116	5580	10.81	11.00	2.01		Pass
11a	6Mbps	1	140	5700	7.15	11.00	2.01		Pass
HT20	MCS0	1	100	5500	7.88	11.00	2.01		Pass
HT20	MCS0	1	116	5580	10.72	11.00	2.01		Pass
HT20	MCS0	1	140	5700	6.99	11.00	2.01		Pass
HT40	MCS0	1	102	5510	3.25	11.00	2.01		Pass
HT40	MCS0	1	110	5550	5.40	11.00	2.01		Pass
HT40	MCS0	1	134	5670	6.01	11.00	2.01		Pass
VHT80	MCS0	1	106	5530	-0.77	11.00	2.01		Pass
VHT80	MCS0	1	122	5610	3.51	11.00	2.01		Pass

Band III straddle channel single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 2	Ant 2	Ant 2		
11a	6Mbps	1	144	5720	10.59	11.00	2.01		Pass
HT20	MCS0	1	144	5720	10.50	11.00	2.01		Pass
HT40	MCS0	1	142	5710	8.06	11.00	2.01		Pass
VHT80	MCS0	1	138	5690	6.31	11.00	2.01		Pass

<CDD Mode>

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	
11a	6Mbps	2	52	5260	16.43	16.38	21.03	20.83	23.14		29.14		23.98		
11a	6Mbps	2	60	5300	16.43	16.43	21.03	20.63	23.16		29.16		23.98		
11a	6Mbps	2	64	5320	16.43	16.43	20.88	21.13	23.16		29.16		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	52	5260	17.90	17.80	20.86	23.98		2.60		30	Pass
11a	6Mbps	2	60	5300	18.00	17.60	20.81	23.98		2.60		30	Pass
11a	6Mbps	2	64	5320	18.10	17.80	20.96	23.98		2.60		30	Pass
HT20	MCS0	2	52	5260	17.30	17.20	20.26	23.98		2.60		30	Pass
HT20	MCS0	2	60	5300	17.30	16.90	20.11	23.98		2.60		30	Pass
HT20	MCS0	2	64	5320	17.40	17.10	20.26	23.98		2.60		30	Pass
HT40	MCS0	2	54	5270	20.80	20.70	23.76	23.98		2.60		30	Pass
HT40	MCS0	2	62	5310	18.50	18.40	21.46	23.98		2.60		30	Pass
VHT20	MCS0	2	52	5260	17.20	17.10	20.16	23.98		2.60		30	Pass
VHT20	MCS0	2	60	5300	17.20	16.80	20.01	23.98		2.60		30	Pass
VHT20	MCS0	2	64	5320	17.30	17.00	20.16	23.98		2.60		30	Pass
VHT40	MCS0	2	54	5270	20.70	20.60	23.66	23.98		2.60		30	Pass
VHT40	MCS0	2	62	5310	18.40	18.30	21.36	23.98		2.60		30	Pass
VHT80	MCS0	2	58	5290	17.40	17.20	20.31	23.98		2.60		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	52	5260			10.87	11.00		5.61			Pass
11a	6Mbps	2	60	5300			10.55	11.00		5.61			Pass
11a	6Mbps	2	64	5320			10.70	11.00		5.61			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3
11a	6Mbps	2	100	5500	16.43	16.43	20.93	20.73	23.16		29.16		23.98		----	----
11a	6Mbps	2	116	5580	16.43	16.38	21.13	20.68	23.14		29.14		23.98		----	----
11a	6Mbps	2	140	5700	16.43	16.38	21.08	20.63	23.14		29.14		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3
11a	6Mbps	2	144	5720	13.19	13.19	15.54	15.29	22.20		28.20		22.84		2.792	3.142

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	100	5500	17.70	17.60	20.66	23.98		2.01		30	Pass
11a	6Mbps	2	116	5580	17.70	17.70	20.71	23.98		2.01		30	Pass
11a	6Mbps	2	140	5700	18.70	17.70	21.24	23.98		2.01		30	Pass
HT20	MCS0	2	100	5500	17.00	17.00	20.01	23.98		2.01		30	Pass
HT20	MCS0	2	116	5580	17.00	17.10	20.06	23.98		2.01		30	Pass
HT20	MCS0	2	140	5700	18.00	17.10	20.58	23.98		2.01		30	Pass
HT40	MCS0	2	102	5510	20.60	20.50	23.56	23.98		2.01		30	Pass
HT40	MCS0	2	110	5550	20.90	20.50	23.71	23.98		2.01		30	Pass
HT40	MCS0	2	134	5670	20.50	20.60	23.56	23.98		2.01		30	Pass
VHT20	MCS0	2	100	5500	16.90	16.90	19.91	23.98		2.01		30	Pass
VHT20	MCS0	2	116	5580	16.90	17.00	19.96	23.98		2.01		30	Pass
VHT20	MCS0	2	140	5700	17.90	17.00	20.48	23.98		2.01		30	Pass
VHT40	MCS0	2	102	5510	20.30	20.40	23.36	23.98		2.01		30	Pass
VHT40	MCS0	2	110	5550	20.80	20.40	23.61	23.98		2.01		30	Pass
VHT40	MCS0	2	134	5670	20.40	20.50	23.46	23.98		2.01		30	Pass
VHT80	MCS0	2	106	5530	17.60	16.90	20.27	23.98		2.01		30	Pass
VHT80	MCS0	2	122	5610	20.90	20.30	23.62	23.98		2.01		30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	144	5720	18.40	17.80	21.12	22.84		2.01		30	Pass
HT20	MCS0	2	144	5720	17.20	16.60	19.92	23.07		2.01		30	Pass
HT40	MCS0	2	142	5710	20.90	20.20	23.57	23.98		2.01		30	Pass
VHT20	MCS0	2	144	5720	17.10	16.50	19.82	23.07		2.01		30	Pass
VHT40	MCS0	2	142	5710	20.80	20.10	23.47	23.98		2.01		30	Pass
VHT80	MCS0	2	138	5690	20.80	20.00	23.43	23.98		2.01		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	100	5500			10.85	11.00		5.02			Pass
11a	6Mbps	2	116	5580			10.88	11.00		5.02			Pass
11a	6Mbps	2	140	5700			10.74	11.00		5.02			Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	144	5720			10.86	11.00		5.02			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	
HE20	MCS0	2	52	5260	Full	18.88	18.88	22.43	22.63	23.76		29.76		23.98		
HE20	MCS0	2	60	5300	Full	18.93	18.88	22.63	22.38	23.76		29.76		23.98		
HE20	MCS0	2	64	5320	Full	18.88	18.93	22.43	22.63	23.76		29.76		23.98		
HE40	MCS0	2	54	5270	Full	37.86	37.76	41.63	41.72	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.86	37.96	41.81	41.99	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.92	77.80	82.16	82.80	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	52	5260	Full	17.40	17.30	20.36	23.98		2.60		30	Pass
HE20	MCS0	2	60	5300	Full	17.40	17.00	20.21	23.98		2.60		30	Pass
HE20	MCS0	2	64	5320	Full	17.50	17.20	20.36	23.98		2.60		30	Pass
HE40	MCS0	2	54	5270	Full	20.90	20.80	23.86	23.98		2.60		30	Pass
HE40	MCS0	2	62	5310	Full	18.60	18.50	21.56	23.98		2.60		30	Pass
HE80	MCS0	2	58	5290	Full	17.50	17.30	20.41	23.98		2.60		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	52	5260	Full			10.60	11.00		5.61			Pass
HE20	MCS0	2	60	5300	Full			10.56	11.00		5.61			Pass
HE20	MCS0	2	64	5320	Full			10.81	11.00		5.61			Pass
HE40	MCS0	2	54	5270	Full			10.48	11.00		5.61			Pass
HE40	MCS0	2	62	5310	Full			8.43	11.00		5.61			Pass
HE80	MCS0	2	58	5290	Full			4.72	11.00		5.61			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3
HE20	MCS0	2	100	5500	Full	18.93	18.88	22.23	22.43	23.76		29.76		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.98	18.93	22.48	22.63	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.93	18.88	22.43	22.53	23.76		29.76		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	37.86	41.90	41.90	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.96	41.99	41.90	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.86	37.76	41.90	41.90	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.92	77.92	82.32	82.16	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.68	77.80	81.84	83.12	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3
HE20	MCS0	2	144	5720	Full	14.49	14.44	16.29	16.09	22.60		28.60		23.07		4.291	3.841
HE40	MCS0	2	142	5710	Full	33.98	33.98	35.86	36.22	23.98		30.00		23.98		3.971	3.791
HE80	MCS0	2	138	5690	Full	74.08	73.84	76.08	75.76	23.98		30.00		23.98		2.56	2.56

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	100	5500	Full	17.10	17.10	20.11	23.98		2.01		30	Pass
HE20	MCS0	2	116	5580	Full	17.10	17.20	20.16	23.98		2.01		30	Pass
HE20	MCS0	2	140	5700	Full	18.10	17.20	20.68	23.98		2.01		30	Pass
HE40	MCS0	2	102	5510	Full	20.70	20.60	23.66	23.98		2.01		30	Pass
HE40	MCS0	2	110	5550	Full	21.00	20.60	23.81	23.98		2.01		30	Pass
HE40	MCS0	2	134	5670	Full	20.60	20.70	23.66	23.98		2.01		30	Pass
HE80	MCS0	2	106	5530	Full	17.70	17.00	20.37	23.98		2.01		30	Pass
HE80	MCS0	2	122	5610	Full	21.00	20.40	23.72	23.98		2.01		30	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	144	5720	Full	17.30	16.70	20.02	23.07		2.01		30	Pass
HE40	MCS0	2	142	5710	Full	21.00	20.30	23.67	23.98		2.01		30	Pass
HE80	MCS0	2	138	5690	Full	20.90	20.10	23.53	23.98		2.01		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	100	5500	Full			10.71	11.00		5.02			Pass
HE20	MCS0	2	116	5580	Full			10.86	11.00		5.02			Pass
HE20	MCS0	2	140	5700	Full			10.75	11.00		5.02			Pass
HE40	MCS0	2	102	5510	Full			9.70	11.00		5.02			Pass
HE40	MCS0	2	110	5550	Full			9.49	11.00		5.02			Pass
HE40	MCS0	2	134	5670	Full			9.80	11.00		5.02			Pass
HE80	MCS0	2	106	5530	Full			4.51	11.00		5.02			Pass
HE80	MCS0	2	122	5610	Full			6.90	11.00		5.02			Pass

Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	144	5720	Full			10.76	11.00		5.02			Pass
HE40	MCS0	2	142	5710	Full			9.44	11.00		5.02			Pass
HE80	MCS0	2	138	5690	Full			7.38	11.00		5.02			Pass

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
VHT20	MCS0	2	52	5260	17.10	17.00	20.06	23.98		5.61		30	Pass
VHT20	MCS0	2	60	5300	17.10	16.70	19.91	23.98		5.61		30	Pass
VHT20	MCS0	2	64	5320	17.20	16.90	20.06	23.98		5.61		30	Pass
VHT40	MCS0	2	54	5270	20.60	20.50	23.56	23.98		5.61		30	Pass
VHT40	MCS0	2	62	5310	18.30	18.20	21.26	23.98		5.61		30	Pass
VHT80	MCS0	2	58	5290	17.30	17.10	20.21	23.98		5.61		30	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
VHT20	MCS0	2	100	5500	16.80	16.80	19.81	23.98		5.02		30	Pass
VHT20	MCS0	2	116	5580	16.80	16.90	19.86	23.98		5.02		30	Pass
VHT20	MCS0	2	140	5700	17.80	16.90	20.38	23.98		5.02		30	Pass
VHT40	MCS0	2	102	5510	20.20	20.30	23.26	23.98		5.02		30	Pass
VHT40	MCS0	2	110	5550	20.70	20.30	23.51	23.98		5.02		30	Pass
VHT40	MCS0	2	134	5670	20.30	20.40	23.36	23.98		5.02		30	Pass
VHT80	MCS0	2	106	5530	17.50	16.80	20.17	23.98		5.02		30	Pass
VHT80	MCS0	2	122	5610	20.80	20.20	23.52	23.98		5.02		30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
VHT20	MCS0	2	144	5720	17.00	16.40	19.72	23.07		5.02		30	Pass
VHT40	MCS0	2	142	5710	20.70	20.00	23.37	23.98		5.02		30	Pass
VHT80	MCS0	2	138	5690	20.70	19.90	23.33	23.98		5.02		30	Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	52	5260	Full	17.30	17.20	20.26	23.98		5.61		30	Pass
HE20	MCS0	2	60	5300	Full	17.30	16.90	20.11	23.98		5.61		30	Pass
HE20	MCS0	2	64	5320	Full	17.40	17.10	20.26	23.98		5.61		30	Pass
HE40	MCS0	2	54	5270	Full	20.80	20.70	23.76	23.98		5.61		30	Pass
HE40	MCS0	2	62	5310	Full	18.50	18.40	21.46	23.98		5.61		30	Pass
HE80	MCS0	2	58	5290	Full	17.40	17.20	20.31	23.98		5.61		30	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	100	5500	Full	17.00	17.00	20.01	23.98		5.02		30	Pass
HE20	MCS0	2	116	5580	Full	17.00	17.10	20.06	23.98		5.02		30	Pass
HE20	MCS0	2	140	5700	Full	18.00	17.10	20.58	23.98		5.02		30	Pass
HE40	MCS0	2	102	5510	Full	20.60	20.50	23.56	23.98		5.02		30	Pass
HE40	MCS0	2	110	5550	Full	20.90	20.50	23.71	23.98		5.02		30	Pass
HE40	MCS0	2	134	5670	Full	20.50	20.60	23.56	23.98		5.02		30	Pass
HE80	MCS0	2	106	5530	Full	17.60	16.90	20.27	23.98		5.02		30	Pass
HE80	MCS0	2	122	5610	Full	20.90	20.30	23.62	23.98		5.02		30	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	144	5720	Full	17.20	16.60	19.92	23.07		5.02		30	Pass
HE40	MCS0	2	142	5710	Full	20.90	20.20	23.57	23.98		5.02		30	Pass
HE80	MCS0	2	138	5690	Full	20.80	20.00	23.43	23.98		5.02		30	Pass

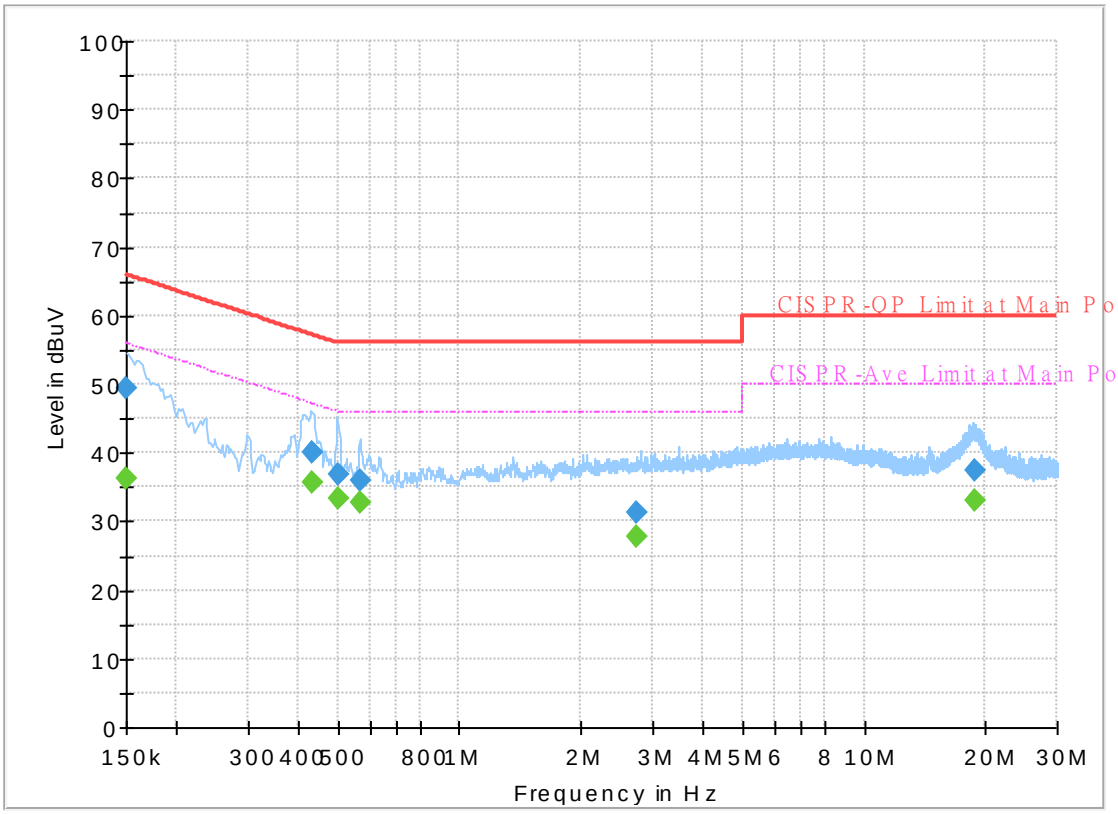
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	111826-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



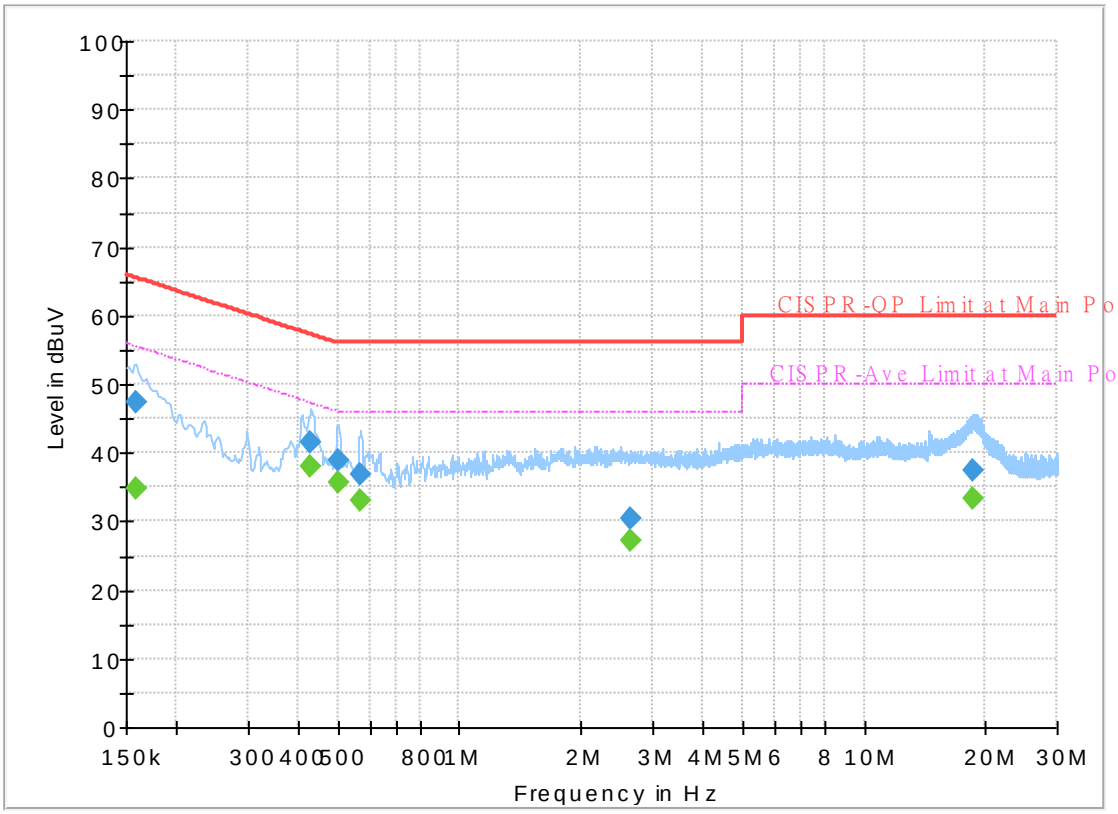
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	36.36	56.00	19.64	L1	OFF	19.7
0.150000	49.37	---	66.00	16.63	L1	OFF	19.7
0.433320	---	35.56	47.19	11.63	L1	OFF	19.8
0.433320	40.16	---	57.19	17.03	L1	OFF	19.8
0.503250	---	33.34	46.00	12.66	L1	OFF	19.9
0.503250	36.81	---	56.00	19.19	L1	OFF	19.9
0.568680	---	32.67	46.00	13.33	L1	OFF	19.9
0.568680	36.07	---	56.00	19.93	L1	OFF	19.9
2.744250	---	27.86	46.00	18.14	L1	OFF	20.2
2.744250	31.27	---	56.00	24.73	L1	OFF	20.2
18.782250	---	33.13	50.00	16.87	L1	OFF	20.5
18.782250	37.38	---	60.00	22.62	L1	OFF	20.5

EUT Information

Report NO :	111826-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	34.67	55.52	20.85	N	OFF	19.7
0.159000	47.46	---	65.52	18.06	N	OFF	19.7
0.429000	---	37.91	47.27	9.36	N	OFF	19.8
0.429000	41.64	---	57.27	15.63	N	OFF	19.8
0.501000	---	35.56	46.00	10.44	N	OFF	19.9
0.501000	38.88	---	56.00	17.12	N	OFF	19.9
0.568500	---	33.04	46.00	12.96	N	OFF	20.0
0.568500	36.85	---	56.00	19.15	N	OFF	20.0
2.647500	---	27.31	46.00	18.69	N	OFF	20.2
2.647500	30.52	---	56.00	25.48	N	OFF	20.2
18.534750	---	33.25	50.00	16.75	N	OFF	20.6
18.534750	37.35	---	60.00	22.65	N	OFF	20.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Caster Liao, and Andy Yang	**Temperature :**	20~25°C
		Relative Humidity :	60~60%

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5149.94	57.55	-16.45	74	42.37	31.8	13.05	29.67	136	36	P	H
		5120.02	47.25	-6.75	54	32.11	31.8	13.01	29.67	136	36	A	H
	*	5260	118.96	-	-	104.15	31.28	13.22	29.69	136	36	P	H
	*	5260	110.46	-	-	95.65	31.28	13.22	29.69	136	36	A	H
		5350.08	62.71	-11.29	74	47.94	31.1	13.38	29.71	136	36	P	H
		5440.08	52.52	-1.48	54	37.2	31.54	13.5	29.72	136	36	A	H
		5140.76	57.1	-16.9	74	41.93	31.8	13.04	29.67	100	88	P	V
		5120.02	47.65	-6.35	54	32.51	31.8	13.01	29.67	100	88	A	V
	*	5260	116.86	-	-	102.05	31.28	13.22	29.69	100	88	P	V
	*	5260	108.09	-	-	93.28	31.28	13.22	29.69	100	88	A	V
		5354.4	59.81	-14.19	74	45.01	31.12	13.39	29.71	100	88	P	V
		5440.08	48.98	-5.02	54	33.66	31.54	13.5	29.72	100	88	A	V
802.11a CH 60 5300MHz		5146.2	54.59	-19.41	74	39.42	31.8	13.04	29.67	130	36	P	H
		5120.02	44.86	-9.14	54	29.72	31.8	13.01	29.67	130	36	A	H
	*	5300	116.66	-	-	101.87	31.2	13.29	29.7	130	36	P	H
	*	5300	108.53	-	-	93.74	31.2	13.29	29.7	130	36	A	H
		5383.92	61.73	-12.27	74	46.76	31.24	13.44	29.71	130	36	P	H
		5439.84	51.29	-2.71	54	35.97	31.54	13.5	29.72	130	36	A	H
		5148.58	54.42	-19.58	74	39.24	31.8	13.05	29.67	100	94	P	V
		5146.2	45.09	-8.91	54	29.92	31.8	13.04	29.67	100	94	A	V
	*	5300	114.28	-	-	99.49	31.2	13.29	29.7	100	94	P	V
	*	5300	106.03	-	-	91.24	31.2	13.29	29.7	100	94	A	V
		5404.08	57.12	-16.88	74	42.04	31.32	13.47	29.71	100	94	P	V
		5410.08	47.35	-6.65	54	32.23	31.36	13.48	29.72	100	94	A	V

802.11a CH 64 5320MHz	*	5320	114.61	-	-	99.82	31.16	13.33	29.7	154	34	P	H
	*	5320	106.53	-	-	91.74	31.16	13.33	29.7	154	34	A	H
		5352	63.33	-10.67	74	48.55	31.11	13.38	29.71	154	34	P	H
		5350.08	53.17	-0.83	54	38.4	31.1	13.38	29.71	154	34	A	H
													H
													H
	*	5320	111.41	-	-	96.62	31.16	13.33	29.7	100	84	P	V
	*	5320	103.29	-	-	88.5	31.16	13.33	29.7	100	84	A	V
		5350.56	59.32	-14.68	74	44.55	31.1	13.38	29.71	100	84	P	V
		5350.08	49.76	-4.24	54	34.99	31.1	13.38	29.71	100	84	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	47.37	-20.83	68.2	44.26	39.8	19.49	56.18	100	0	P	H
		15780	53.68	-20.32	74	48.42	37.32	23.4	55.46	202	17	P	H
		15780	44.1	-9.9	54	38.84	37.32	23.4	55.46	202	17	A	H
													H
		10520	48.27	-19.93	68.2	45.16	39.8	19.49	56.18	100	0	P	V
		15780	54.87	-19.13	74	49.61	37.32	23.4	55.46	398	301	P	V
		15780	45.43	-8.57	54	40.17	37.32	23.4	55.46	398	301	A	V
													V
802.11a CH 60 5300MHz		10600	49.06	-24.94	74	45.85	39.8	19.53	56.12	100	0	P	H
		15900	47.11	-26.89	74	41.6	37.5	23.49	55.48	100	0	P	H
													H
													H
		10600	47.79	-26.21	74	44.58	39.8	19.53	56.12	100	0	P	V
		15900	45.93	-28.07	74	40.42	37.5	23.49	55.48	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.56	-25.44	74	45.3	39.8	19.55	56.09	100	0	P	H
		15960	45.91	-28.09	74	40.55	37.32	23.53	55.49	100	0	P	H
													H
													H
		10640	48.48	-25.52	74	45.22	39.8	19.55	56.09	100	0	P	V
		15960	45.68	-28.32	74	40.32	37.32	23.53	55.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5139.4	57.73	-16.27	74	42.57	31.8	13.03	29.67	135	36	P	H
		5144.5	48.62	-5.38	54	33.45	31.8	13.04	29.67	135	36	A	H
	*	5260	119.25	-	-	104.44	31.28	13.22	29.69	135	36	P	H
	*	5260	110.3	-	-	95.49	31.28	13.22	29.69	135	36	A	H
802.11n		5350.08	66.48	-7.52	74	51.71	31.1	13.38	29.71	135	36	P	H
HT20		5350.56	53.8	-0.2	54	39.03	31.1	13.38	29.71	135	36	A	H
CH 52		5126.14	57.5	-16.5	74	42.35	31.8	13.02	29.67	100	88	P	V
5260MHz		5119.68	48.91	-5.09	54	33.77	31.8	13.01	29.67	100	88	A	V
	*	5260	116.58	-	-	101.77	31.28	13.22	29.69	100	88	P	V
	*	5260	107.92	-	-	93.11	31.28	13.22	29.69	100	88	A	V
		5350.8	59.94	-14.06	74	45.17	31.1	13.38	29.71	100	88	P	V
		5351.04	50.75	-3.25	54	35.98	31.1	13.38	29.71	100	88	A	V
		5124.78	55.25	-18.75	74	40.1	31.8	13.02	29.67	156	35	P	H
		5146.88	45.33	-8.67	54	30.16	31.8	13.04	29.67	156	35	A	H
	*	5300	116.11	-	-	101.32	31.2	13.29	29.7	156	35	P	H
	*	5300	107.78	-	-	92.99	31.2	13.29	29.7	156	35	A	H
802.11n		5422.56	57.83	-16.17	74	42.62	31.44	13.49	29.72	156	35	P	H
HT20		5439.84	49.35	-4.65	54	34.03	31.54	13.5	29.72	156	35	A	H
CH 60		5149.6	54.57	-19.43	74	39.39	31.8	13.05	29.67	100	95	P	V
5300MHz		5145.86	44.98	-9.02	54	29.81	31.8	13.04	29.67	100	95	A	V
	*	5300	113.31	-	-	98.52	31.2	13.29	29.7	100	95	P	V
	*	5300	104.94	-	-	90.15	31.2	13.29	29.7	100	95	A	V
		5423.28	57.5	-16.5	74	42.29	31.44	13.49	29.72	100	95	P	V
		5439.84	48.12	-5.88	54	32.8	31.54	13.5	29.72	100	95	A	V

	*	5320	113.67	-	-	98.88	31.16	13.33	29.7	153	35	P	H
	*	5320	105.77	-	-	90.98	31.16	13.33	29.7	153	35	A	H
		5350.72	61.51	-12.49	74	46.74	31.1	13.38	29.71	153	35	P	H
		5350.24	52.62	-1.38	54	37.85	31.1	13.38	29.71	153	35	A	H
802.11n													H
HT20													H
CH 64	*	5320	110.76	-	-	95.97	31.16	13.33	29.7	101	84	P	V
5320MHz	*	5320	102.55	-	-	87.76	31.16	13.33	29.7	101	84	A	V
		5352.48	57.6	-16.4	74	42.82	31.11	13.38	29.71	101	84	P	V
		5350.08	48.96	-5.04	54	34.19	31.1	13.38	29.71	101	84	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	48.01	-20.19	68.2	44.9	39.8	19.49	56.18	100	0	P	H
		15780	54.65	-19.35	74	49.39	37.32	23.4	55.46	196	17	P	H
802.11n		15780	44.58	-9.42	54	39.32	37.32	23.4	55.46	196	17	A	H
HT20													H
CH 52		10520	48.03	-20.17	68.2	44.92	39.8	19.49	56.18	100	0	P	V
5260MHz		15780	54.84	-19.16	74	49.58	37.32	23.4	55.46	399	301	P	V
		15780	45.59	-8.41	54	40.33	37.32	23.4	55.46	399	301	A	V
													V
		10600	47.99	-26.01	74	44.78	39.8	19.53	56.12	100	0	P	H
		15900	46.49	-27.51	74	40.98	37.5	23.49	55.48	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	47.89	-26.11	74	44.68	39.8	19.53	56.12	100	0	P	V
5300MHz		15900	45.64	-28.36	74	40.13	37.5	23.49	55.48	100	0	P	V
													V
													V
		10640	49.27	-24.73	74	46.01	39.8	19.55	56.09	100	0	P	H
		15960	45.42	-28.58	74	40.06	37.32	23.53	55.49	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	49.83	-24.17	74	46.57	39.8	19.55	56.09	100	0	P	V
5320MHz		15960	45.39	-28.61	74	40.03	37.32	23.53	55.49	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5111.86	54.03	-19.97	74	38.9	31.8	13	29.67	135	35	P	H
		5120.02	45.97	-8.03	54	30.83	31.8	13.01	29.67	135	35	A	H
	*	5270	112.29	-	-	97.48	31.26	13.24	29.69	135	35	P	H
	*	5270	104.39	-	-	89.58	31.26	13.24	29.69	135	35	A	H
		5381.52	58.83	-15.17	74	43.87	31.23	13.44	29.71	135	35	P	H
		5440.08	50.9	-3.1	54	35.58	31.54	13.5	29.72	135	35	A	H
		5111.52	54.56	-19.44	74	39.43	31.8	13	29.67	100	94	P	V
		5148.24	46.48	-7.52	54	31.3	31.8	13.05	29.67	100	94	A	V
	*	5270	110.17	-	-	95.36	31.26	13.24	29.69	100	94	P	V
	*	5270	102.13	-	-	87.32	31.26	13.24	29.69	100	94	A	V
		5400	56.32	-17.68	74	41.26	31.3	13.47	29.71	100	94	P	V
		5439.84	48.18	-5.82	54	32.86	31.54	13.5	29.72	100	94	A	V
802.11n HT40 CH 62 5310MHz		5104.38	54.96	-19.04	74	39.84	31.8	12.99	29.67	154	35	P	H
		5148.24	45.66	-8.34	54	30.48	31.8	13.05	29.67	154	35	A	H
	*	5310	110	-	-	95.21	31.18	13.31	29.7	154	35	P	H
	*	5310	101.91	-	-	87.12	31.18	13.31	29.7	154	35	A	H
		5356.32	61.41	-12.59	74	46.6	31.13	13.39	29.71	154	35	P	H
		5352.48	53.65	-0.35	54	38.87	31.11	13.38	29.71	154	35	A	H
		5139.06	54.47	-19.53	74	39.31	31.8	13.03	29.67	110	92	P	V
		5146.88	45.08	-8.92	54	29.91	31.8	13.04	29.67	110	92	A	V
	*	5310	107.17	-	-	92.38	31.18	13.31	29.7	110	92	P	V
	*	5310	99.03	-	-	84.24	31.18	13.31	29.7	110	92	A	V
		5352.48	57.81	-16.19	74	43.03	31.11	13.38	29.71	110	92	P	V
		5352.48	51.1	-2.9	54	36.32	31.11	13.38	29.71	110	92	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	47.83	-20.37	68.2	44.7	39.8	19.5	56.17	100	0	P	H
		15810	45.14	-28.86	74	39.86	37.32	23.42	55.46	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	47.28	-20.92	68.2	44.15	39.8	19.5	56.17	100	0	P	V
5270MHz		15810	45.48	-28.52	74	40.2	37.32	23.42	55.46	100	0	P	V
													V
													V
		10620	48.06	-25.94	74	44.82	39.8	19.54	56.1	100	0	P	H
		15930	45.62	-28.38	74	40.19	37.41	23.51	55.49	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	48.42	-25.58	74	45.18	39.8	19.54	56.1	100	0	P	V
5310MHz		15930	45.57	-28.43	74	40.14	37.41	23.51	55.49	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5031.96	53.22	-20.78	74	38.42	31.56	12.9	29.66	100	127	P	H
		5120.02	45.03	-8.97	54	29.89	31.8	13.01	29.67	100	127	A	H
	*	5290	98.2	-	-	83.41	31.22	13.27	29.7	100	127	P	H
	*	5290	89.3	-	-	74.51	31.22	13.27	29.7	100	127	A	H
		5350.08	60	-14	74	45.23	31.1	13.38	29.71	100	127	P	H
		5350.08	52.79	-1.21	54	38.02	31.1	13.38	29.71	100	127	A	H
		5082.62	54.43	-19.57	74	39.4	31.73	12.96	29.66	101	94	P	V
		5120.02	44.6	-9.4	54	29.46	31.8	13.01	29.67	101	94	A	V
	*	5290	95.59	-	-	80.8	31.22	13.27	29.7	101	94	P	V
	*	5290	87.65	-	-	72.86	31.22	13.27	29.7	101	94	A	V
		5351.04	58.16	-15.84	74	43.39	31.1	13.38	29.71	101	94	P	V
		5350.08	51.63	-2.37	54	36.86	31.1	13.38	29.71	101	94	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	47.83	-20.37	68.2	44.65	39.8	19.52	56.14	100	0	P	H
		15870	45.26	-28.74	74	39.82	37.44	23.47	55.47	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	48.92	-19.28	68.2	45.74	39.8	19.52	56.14	100	0	P	V
5290MHz		15870	45.51	-28.49	74	40.07	37.44	23.47	55.47	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5373.84	57.02	-16.98	74	42.11	31.2	13.42	29.71	290	30	P	H
		5468.56	67.03	-1.17	68.2	51.58	31.64	13.53	29.72	290	30	P	H
		5459.92	46.44	-7.56	54	31.02	31.62	13.52	29.72	290	30	A	H
	*	5500	113.45	-	-	97.92	31.7	13.56	29.73	290	30	P	H
	*	5500	105.1	-	-	89.57	31.7	13.56	29.73	290	30	A	H
													H
		5460.08	56.49	-11.71	68.2	41.07	31.62	13.52	29.72	102	128	P	V
		5470	65.79	-2.41	68.2	50.35	31.64	13.53	29.73	102	128	P	V
		5460	45.54	-8.46	54	30.12	31.62	13.52	29.72	102	128	A	V
	*	5500	112.63	-	-	97.1	31.7	13.56	29.73	102	128	P	V
	*	5500	104.05	-	-	88.52	31.7	13.56	29.73	102	128	A	V
													V
802.11a CH 116 5580MHz		5455.36	61.06	-12.94	74	45.65	31.61	13.52	29.72	289	29	P	H
		5461.6	58.97	-9.23	68.2	43.55	31.62	13.52	29.72	289	29	P	H
		5440	51.23	-2.77	54	35.91	31.54	13.5	29.72	289	29	A	H
	*	5580	116.46	-	-	100.94	31.66	13.62	29.76	289	29	P	H
	*	5580	107.03	-	-	91.51	31.66	13.62	29.76	289	29	A	H
		5730.98	56.88	-11.32	68.2	41.05	31.89	13.76	29.82	289	29	P	H
		5454.16	57.3	-16.7	74	41.89	31.61	13.52	29.72	100	130	P	V
		5464	57.74	-10.46	68.2	42.31	31.63	13.52	29.72	100	130	P	V
		5440	48.85	-5.15	54	33.53	31.54	13.5	29.72	100	130	A	V
	*	5580	116.23	-	-	100.71	31.66	13.62	29.76	100	130	P	V
	*	5580	107.46	-	-	91.94	31.66	13.62	29.76	100	130	A	V
		5743.265	53.32	-14.88	68.2	37.41	31.96	13.77	29.82	100	130	P	V

802.11a CH 140 5700MHz	*	5700	111.85	-	-	96.23	31.7	13.73	29.81	278	30	P	H
	*	5700	103.44	-	-	87.82	31.7	13.73	29.81	278	30	A	H
		5727.56	66.23	-1.97	68.2	50.43	31.87	13.75	29.82	278	30	P	H
													H
													H
													H
	*	5700	111.56	-	-	95.94	31.7	13.73	29.81	291	31	P	V
	*	5700	103.61	-	-	87.99	31.7	13.73	29.81	291	31	A	V
		5725.56	65.92	-2.28	68.2	50.14	31.85	13.75	29.82	291	31	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	49.65	-24.35	74	45.6	40.1	19.75	55.8	100	0	P	H
		16500	47.79	-20.41	68.2	40.17	39	24.32	55.7	100	0	P	H
													H
													H
		11000	49.91	-24.09	74	45.86	40.1	19.75	55.8	100	0	P	V
		16500	48.16	-20.04	68.2	40.54	39	24.32	55.7	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	49.01	-24.99	74	45.02	39.82	19.87	55.7	100	0	P	H
		16740	54.5	-13.7	68.2	46.11	39.74	24.69	56.04	100	0	P	H
													H
													H
		11160	48.5	-25.5	74	44.51	39.82	19.87	55.7	100	0	P	V
		16740	56.65	-11.55	68.2	48.26	39.74	24.69	56.04	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	48.38	-25.62	74	43.9	40	20.04	55.56	100	0	P	H
		17100	49.44	-18.76	68.2	40.47	40.4	25.11	56.54	100	0	P	H
													H
													H
		11400	49.39	-24.61	74	44.91	40	20.04	55.56	100	0	P	V
		17100	49.04	-19.16	68.2	40.07	40.4	25.11	56.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.12	58.85	-15.15	74	43.43	31.62	13.52	29.72	255	47	P	H
		5469.04	66.97	-1.23	68.2	51.53	31.64	13.53	29.73	255	47	P	H
		5459.6	47.13	-6.87	54	31.71	31.62	13.52	29.72	255	47	A	H
	*	5500	111.85	-	-	96.32	31.7	13.56	29.73	255	47	P	H
802.11n	*	5500	103.91	-	-	88.38	31.7	13.56	29.73	255	47	A	H
HT20													H
CH 100		5459.92	55.67	-18.33	74	40.25	31.62	13.52	29.72	254	130	P	V
5500MHz		5467.6	63.45	-4.75	68.2	48	31.64	13.53	29.72	254	130	P	V
		5460	45.99	-8.01	54	30.57	31.62	13.52	29.72	254	130	A	V
	*	5500	111.04	-	-	95.51	31.7	13.56	29.73	254	130	P	V
	*	5500	102.92	-	-	87.39	31.7	13.56	29.73	254	130	A	V
													V
		5439.52	59.24	-14.76	74	43.92	31.54	13.5	29.72	254	44	P	H
		5464.96	60.21	-7.99	68.2	44.77	31.63	13.53	29.72	254	44	P	H
		5440	50.72	-3.28	54	35.4	31.54	13.5	29.72	254	44	A	H
	*	5580	115.98	-	-	100.46	31.66	13.62	29.76	254	44	P	H
802.11n	*	5580	107.2	-	-	91.68	31.66	13.62	29.76	254	44	A	H
HT20		5738.855	55.09	-13.11	68.2	39.22	31.93	13.76	29.82	254	44	P	H
CH 116		5445.28	57.01	-16.99	74	41.65	31.57	13.51	29.72	329	129	P	V
5580MHz		5466.64	57.54	-10.66	68.2	42.1	31.63	13.53	29.72	329	129	P	V
		5439.76	48.93	-5.07	54	33.61	31.54	13.5	29.72	329	129	A	V
	*	5580	115.58	-	-	100.06	31.66	13.62	29.76	329	129	P	V
	*	5580	106.71	-	-	91.19	31.66	13.62	29.76	329	129	A	V
		5738.225	54.08	-14.12	68.2	38.21	31.93	13.76	29.82	329	129	P	V

	*	5700	109.88	-	-	94.26	31.7	13.73	29.81	279	30	P	H
	*	5700	101.69	-	-	86.07	31.7	13.73	29.81	279	30	A	H
		5725.08	67.55	-0.65	68.2	51.77	31.85	13.75	29.82	279	30	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	107.92	-	-	92.3	31.7	13.73	29.81	272	30	P	V
5700MHz	*	5700	99.98	-	-	84.36	31.7	13.73	29.81	272	30	A	V
		5725.24	64.4	-3.8	68.2	48.62	31.85	13.75	29.82	272	30	P	V
													V
													V
													V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	47.88	-26.12	74	43.83	40.1	19.75	55.8	100	0	P	H
		16500	46.37	-21.83	68.2	38.75	39	24.32	55.7	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	49.61	-24.39	74	45.56	40.1	19.75	55.8	100	0	P	V
5500MHz		16500	47.08	-21.12	68.2	39.46	39	24.32	55.7	100	0	P	V
													V
													V
		11160	47.66	-26.34	74	43.67	39.82	19.87	55.7	100	0	P	H
		16740	53.85	-14.35	68.2	45.46	39.74	24.69	56.04	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	47.11	-26.89	74	43.12	39.82	19.87	55.7	100	0	P	V
5580MHz		16740	54.97	-13.23	68.2	46.58	39.74	24.69	56.04	100	0	P	V
													V
													V
		11400	48.33	-25.67	74	43.85	40	20.04	55.56	100	0	P	H
		17100	48.57	-19.63	68.2	39.6	40.4	25.11	56.54	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	48.36	-25.64	74	43.88	40	20.04	55.56	100	0	P	V
5700MHz		17100	48.38	-19.82	68.2	39.41	40.4	25.11	56.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5455.84	61.53	-12.47	74	46.12	31.61	13.52	29.72	257	47	P	H
		5470	63.25	-4.95	68.2	47.81	31.64	13.53	29.73	257	47	P	H
		5457.28	52.67	-1.33	54	37.26	31.61	13.52	29.72	257	47	A	H
	*	5510	108.33	-	-	92.82	31.68	13.56	29.73	257	47	P	H
802.11n	*	5510	100.13	-	-	84.62	31.68	13.56	29.73	257	47	A	H
HT40		5754.29	53.91	-14.29	68.2	37.96	32	13.78	29.83	257	47	P	H
CH 102		5453.44	56.73	-17.27	74	41.32	31.61	13.52	29.72	270	129	P	V
5510MHz		5470	59.9	-8.3	68.2	44.46	31.64	13.53	29.73	270	129	P	V
		5457.28	48.22	-5.78	54	32.81	31.61	13.52	29.72	270	129	A	V
	*	5510	107.26	-	-	91.75	31.68	13.56	29.73	270	129	P	V
	*	5510	99.48	-	-	83.97	31.68	13.56	29.73	270	129	A	V
		5745.785	53.64	-14.56	68.2	37.72	31.97	13.77	29.82	270	129	P	V
		5443.12	60.34	-13.66	74	44.99	31.56	13.51	29.72	257	45	P	H
		5464.96	63.89	-4.31	68.2	48.45	31.63	13.53	29.72	257	45	P	H
		5459.68	52.45	-1.55	54	37.03	31.62	13.52	29.72	257	45	A	H
	*	5550	110.86	-	-	95.41	31.6	13.6	29.75	257	45	P	H
802.11n	*	5550	102.85	-	-	87.4	31.6	13.6	29.75	257	45	A	H
HT40		5750.825	55.19	-13.01	68.2	39.24	32	13.78	29.83	257	45	P	H
CH 110		5459.92	59.29	-14.71	74	43.87	31.62	13.52	29.72	254	130	P	V
5550MHz		5468.32	63.45	-4.75	68.2	48	31.64	13.53	29.72	254	130	P	V
		5459.92	50.28	-3.72	54	34.86	31.62	13.52	29.72	254	130	A	V
	*	5550	110.2	-	-	94.75	31.6	13.6	29.75	254	130	P	V
	*	5550	102.32	-	-	86.87	31.6	13.6	29.75	254	130	A	V
		5748.935	55.02	-13.18	68.2	39.08	31.99	13.77	29.82	254	130	P	V

		5451.85	56.57	-17.43	74	41.18	31.6	13.51	29.72	255	28	P	H
		5460.6	56.47	-11.73	68.2	41.05	31.62	13.52	29.72	255	28	P	H
		5360.15	48.44	-5.56	54	33.61	31.14	13.4	29.71	255	28	A	H
	*	5670	109.24	-	-	93.69	31.64	13.7	29.79	255	28	P	H
802.11n	*	5670	101.06	-	-	85.51	31.64	13.7	29.79	255	28	A	H
HT40		5727.725	67.95	-0.25	68.2	52.15	31.87	13.75	29.82	255	28	P	H
CH 134		5436.8	55.25	-18.75	74	39.95	31.52	13.5	29.72	262	31	P	V
5670MHz		5465.85	55.63	-12.57	68.2	40.19	31.63	13.53	29.72	262	31	P	V
		5439.95	47.58	-6.42	54	32.26	31.54	13.5	29.72	262	31	A	V
	*	5670	108.84	-	-	93.29	31.64	13.7	29.79	262	31	P	V
	*	5670	100.97	-	-	85.42	31.64	13.7	29.79	262	31	A	V
		5728.25	65.78	-2.42	68.2	49.97	31.87	13.76	29.82	262	31	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	49.84	-24.16	74	45.79	40.08	19.76	55.79	100	0	P	H
		16530	48.27	-19.93	68.2	40.53	39.12	24.36	55.74	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	49.61	-24.39	74	45.56	40.08	19.76	55.79	100	0	P	V
5510MHz		16530	48.02	-20.18	68.2	40.28	39.12	24.36	55.74	100	0	P	V
													V
													V
		11100	49.84	-24.16	74	45.76	40	19.82	55.74	100	0	P	H
		16650	49.97	-18.23	68.2	41.89	39.45	24.54	55.91	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	49.2	-24.8	74	45.12	40	19.82	55.74	100	0	P	V
5550MHz		16650	49.4	-18.8	68.2	41.32	39.45	24.54	55.91	100	0	P	V
													V
													V
		11340	48.25	-25.75	74	44.03	39.82	20	55.6	100	0	P	H
		17010	51.02	-17.18	68.2	41.86	40.49	25.08	56.41	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	48.3	-25.7	74	44.08	39.82	20	55.6	100	0	P	V
5670MHz		17010	50.94	-17.26	68.2	41.78	40.49	25.08	56.41	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.32	59.42	-14.58	74	44.01	31.61	13.52	29.72	257	48	P	H
		5469.04	67.28	-0.92	68.2	51.84	31.64	13.53	29.73	257	48	P	H
		5459.2	51.45	-2.55	54	36.03	31.62	13.52	29.72	257	48	A	H
	*	5530	103.95			88.47	31.64	13.58	29.74	257	48	P	H
802.11ac	*	5530	94.9			79.42	31.64	13.58	29.74	257	48	A	H
VHT80		5726.57	54.92	-13.28	68.2	39.13	31.86	13.75	29.82	257	48	P	H
CH 106		5455.6	56.85	-17.15	74	41.44	31.61	13.52	29.72	254	130	P	V
5530MHz		5469.76	62.82	-5.38	68.2	47.38	31.64	13.53	29.73	254	130	P	V
		5459.44	49.99	-4.01	54	34.57	31.62	13.52	29.72	254	130	A	V
	*	5530	104			88.52	31.64	13.58	29.74	254	130	P	V
	*	5530	94.31			78.83	31.64	13.58	29.74	254	130	A	V
		5734.76	55.19	-13.01	68.2	39.34	31.91	13.76	29.82	254	130	P	V
		5457.76	62.32	-11.68	74	46.9	31.62	13.52	29.72	255	45	P	H
		5469.76	62.58	-5.62	68.2	47.14	31.64	13.53	29.73	255	45	P	H
		5459.44	53.02	-0.98	54	37.6	31.62	13.52	29.72	255	45	A	H
	*	5610	108.22			92.66	31.68	13.65	29.77	255	45	P	H
802.11ac	*	5610	98.72			83.16	31.68	13.65	29.77	255	45	A	H
VHT80		5727.2	61.32	-6.88	68.2	45.53	31.86	13.75	29.82	255	45	P	H
CH 122		5457.52	58.48	-15.52	74	43.06	31.62	13.52	29.72	270	34	P	V
5610MHz		5465.2	59.89	-8.31	68.2	44.45	31.63	13.53	29.72	270	34	P	V
		5459.44	49.97	-4.03	54	34.55	31.62	13.52	29.72	270	34	A	V
	*	5610	107.94			92.38	31.68	13.65	29.77	270	34	P	V
	*	5610	99.21			83.65	31.68	13.65	29.77	270	34	A	V
		5732.87	60.42	-7.78	68.2	44.58	31.9	13.76	29.82	270	34	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	48.44	-25.56	74	44.37	40.04	19.79	55.76	100	0	P	H
		16590	47.73	-20.47	68.2	39.75	39.36	24.45	55.83	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	49.33	-24.67	74	45.26	40.04	19.79	55.76	100	0	P	V
5530MHz		16590	48.52	-19.68	68.2	40.54	39.36	24.45	55.83	100	0	P	V
													V
													V
		11220	48.62	-25.38	74	44.68	39.7	19.91	55.67	100	0	P	H
		16830	50.21	-17.99	68.2	41.3	40.25	24.82	56.16	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	48.44	-25.56	74	44.5	39.7	19.91	55.67	100	0	P	V
5610MHz		16830	50.34	-17.86	68.2	41.43	40.25	24.82	56.16	100	0	P	V
													V
													V

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

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5460	61.25	-12.75	74	45.83	31.62	13.52	29.72	276	31	P	H
		5468.56	60.64	-7.56	68.2	45.19	31.64	13.53	29.72	276	31	P	H
		5439.7	52.06	-1.94	54	36.74	31.54	13.5	29.72	276	31	A	H
	*	5720	113.14	-	-	97.38	31.82	13.75	29.81	276	31	P	H
	*	5720	104.03	-	-	88.27	31.82	13.75	29.81	276	31	A	H
		5941.75	59.57	-8.63	68.2	43.38	32.28	13.81	29.9	276	31	P	H
		5452.96	58.11	-15.89	74	42.7	31.61	13.52	29.72	254	108	P	V
		5470	57.92	-10.28	68.2	42.48	31.64	13.53	29.73	254	108	P	V
		5440.09	48.2	-5.8	54	32.88	31.54	13.5	29.72	254	108	A	V
	*	5720	111.41	-	-	95.65	31.82	13.75	29.81	254	108	P	V
	*	5720	102.68	-	-	86.92	31.82	13.75	29.81	254	108	A	V
		5929.5	58.41	-9.79	68.2	42.23	32.26	13.81	29.89	254	108	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	48.54	-25.46	74	44.05	39.96	20.07	55.54	100	0	P	H
		17160	55.14	-13.06	68.2	45.99	40.64	25.13	56.62	100	0	P	H
													H
													H
		11440	48.79	-25.21	74	44.3	39.96	20.07	55.54	100	0	P	V
		17160	55.77	-12.43	68.2	46.62	40.64	25.13	56.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5440.09	61.51	-12.49	74	46.19	31.54	13.5	29.72	269	28	P	H
		5464.66	58.56	-9.64	68.2	43.13	31.63	13.52	29.72	269	28	P	H
		5440.09	52.57	-1.43	54	37.25	31.54	13.5	29.72	269	28	A	H
	*	5720	113.36	-	-	97.6	31.82	13.75	29.81	269	28	P	H
802.11n	*	5720	104.1	-	-	88.34	31.82	13.75	29.81	269	28	A	H
HT20		5938.5	58.28	-9.92	68.2	42.09	32.28	13.81	29.9	269	28	P	H
CH 144		5450.23	57.69	-16.31	74	42.3	31.6	13.51	29.72	255	108	P	V
5720MHz		5467.39	57.63	-10.57	68.2	42.19	31.63	13.53	29.72	255	108	P	V
		5440.09	49.05	-4.95	54	33.73	31.54	13.5	29.72	255	108	A	V
	*	5720	111.78	-	-	96.02	31.82	13.75	29.81	255	108	P	V
	*	5720	102.54	-	-	86.78	31.82	13.75	29.81	255	108	A	V
		5933	57.66	-10.54	68.2	41.47	32.27	13.81	29.89	255	108	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	48.18	-25.82	74	43.69	39.96	20.07	55.54	100	0	P	H
		17160	54.38	-13.82	68.2	45.23	40.64	25.13	56.62	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	48.72	-25.28	74	44.23	39.96	20.07	55.54	100	0	P	V
5720MHz		17160	54.29	-13.91	68.2	45.14	40.64	25.13	56.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5439.7	60.26	-13.74	74	44.94	31.54	13.5	29.72	279	29	P	H
		5470	59.97	-8.23	68.2	44.53	31.64	13.53	29.73	279	29	P	H
		5440.09	53.36	-0.64	54	38.04	31.54	13.5	29.72	279	29	A	H
	*	5710	110.68	-	-	94.99	31.76	13.74	29.81	279	29	P	H
802.11n	*	5710	102.37	-	-	86.68	31.76	13.74	29.81	279	29	A	H
HT40		5867.75	62.9	-5.3	68.2	46.82	32.14	13.81	29.87	279	29	P	H
CH 142		5434.63	58.2	-15.8	74	42.91	31.51	13.5	29.72	268	31	P	V
5710MHz		5468.95	58.07	-10.13	68.2	42.63	31.64	13.53	29.73	268	31	P	V
		5440.09	50.54	-3.46	54	35.22	31.54	13.5	29.72	268	31	A	V
	*	5710	109.79	-	-	94.1	31.76	13.74	29.81	268	31	P	V
	*	5710	101.16	-	-	85.47	31.76	13.74	29.81	268	31	A	V
		5888.75	60.79	-7.41	68.2	44.68	32.18	13.81	29.88	268	31	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	48.84	-25.16	74	44.35	39.98	20.06	55.55	100	0	P	H
		17130	51.76	-16.44	68.2	42.7	40.52	25.12	56.58	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	48.41	-25.59	74	43.92	39.98	20.06	55.55	100	0	P	V
5710MHz		17130	53.93	-14.27	68.2	44.87	40.52	25.12	56.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5454.13	61.15	-12.85	74	45.74	31.61	13.52	29.72	266	30	P	H
		5467.39	62.19	-6.01	68.2	46.75	31.63	13.53	29.72	266	30	P	H
		5459.59	53.43	-0.57	54	38.01	31.62	13.52	29.72	266	30	A	H
	*	5690	107.77	-	-	92.17	31.68	13.72	29.8	266	30	P	H
802.11ac	*	5690	99.67	-	-	84.07	31.68	13.72	29.8	266	30	A	H
VHT80		5916.5	66.6	-1.6	68.2	50.45	32.23	13.81	29.89	266	30	P	H
CH 138		5454.13	58.34	-15.66	74	42.93	31.61	13.52	29.72	258	31	P	V
5690MHz		5462.32	59.9	-8.3	68.2	44.48	31.62	13.52	29.72	258	31	P	V
		5458.42	50.8	-3.2	54	35.38	31.62	13.52	29.72	258	31	A	V
	*	5690	107.59	-	-	91.99	31.68	13.72	29.8	258	31	P	V
	*	5690	99.52	-	-	83.92	31.68	13.72	29.8	258	31	A	V
		5898.25	63.68	-4.52	68.2	47.55	32.2	13.81	29.88	258	31	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	48.91	-25.09	74	44.51	39.94	20.03	55.57	100	0	P	H
		17070	51.29	-16.91	68.2	42.26	40.43	25.1	56.5	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	48.83	-25.17	74	44.43	39.94	20.03	55.57	100	0	P	V
5690MHz		17070	51.73	-16.47	68.2	42.7	40.43	25.1	56.5	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 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		286.08	33.26	-12.74	46	43.99	19.02	2.85	32.6	-	-	P	H
		418.97	32.97	-13.03	46	39.07	22.87	3.46	32.43	-	-	P	H
		527.61	34.98	-11.02	46	39.61	24.12	3.91	32.66	-	-	P	H
		631.4	29.63	-16.37	46	31.54	26.36	4.32	32.59	-	-	P	H
		730.34	39.9	-6.1	46	40.01	27.78	4.65	32.54	100	0	P	H
		874.87	33.42	-12.58	46	31.66	29.11	5.18	32.53	-	-	P	H
													H
													H
													H
													H
													H
													H
		89.17	30.37	-13.13	43.5	46.89	14.69	1.44	32.65	-	-	P	V
		277.35	30.49	-15.51	46	41.47	18.85	2.8	32.63	-	-	P	V
		499.48	33.32	-12.68	46	38.05	24.15	3.78	32.66	-	-	P	V
		624.61	32.1	-13.9	46	34.21	26.19	4.3	32.6	-	-	P	V
		749.74	34.3	-11.7	46	34.07	28.16	4.7	32.63	100	0	P	V
		896.21	32.44	-13.56	46	30.45	29.14	5.29	32.44	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+3	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 52 5260MHz		5071.4	58.23	-15.77	74	43.25	31.69	12.95	29.66	277	51	P	H
		5071.06	49.38	-4.62	54	34.41	31.68	12.95	29.66	277	51	A	H
	*	5260	126.8	-	-	111.99	31.28	13.22	29.69	277	51	P	H
	*	5260	117.59	-	-	102.78	31.28	13.22	29.69	277	51	A	H
		5359.2	58	-16	74	43.17	31.14	13.4	29.71	277	51	P	H
		5354.64	50.35	-3.65	54	35.55	31.12	13.39	29.71	277	51	A	H
		5094.18	55.74	-18.26	74	40.65	31.78	12.98	29.67	100	86	P	V
		5071.06	47.48	-6.52	54	32.51	31.68	12.95	29.66	100	86	A	V
	*	5260	121.54	-	-	106.73	31.28	13.22	29.69	100	86	P	V
	*	5260	113.6	-	-	98.79	31.28	13.22	29.69	100	86	A	V
		5416.32	55.01	-18.99	74	39.85	31.4	13.48	29.72	100	86	P	V
		5358.72	45.76	-8.24	54	30.94	31.13	13.4	29.71	100	86	A	V
802.11a CH 60 5300MHz		5106.42	57.89	-16.11	74	42.77	31.8	12.99	29.67	265	50	P	H
		5111.86	49.52	-4.48	54	34.39	31.8	13	29.67	265	50	A	H
	*	5300	125.66	-	-	110.87	31.2	13.29	29.7	265	50	P	H
	*	5300	117.08	-	-	102.29	31.2	13.29	29.7	265	50	A	H
		5354.64	62.4	-11.6	74	47.6	31.12	13.39	29.71	265	50	P	H
		5350.08	52.8	-1.2	54	38.03	31.1	13.38	29.71	265	50	A	H
		5071.74	57.01	-16.99	74	42.03	31.69	12.95	29.66	100	87	P	V
		5110.16	47.3	-6.7	54	32.17	31.8	13	29.67	100	87	A	V
	*	5300	120.02	-	-	105.23	31.2	13.29	29.7	100	87	P	V
	*	5300	112.25	-	-	97.46	31.2	13.29	29.7	100	87	A	V
		5400.24	55.04	-18.96	74	39.98	31.3	13.47	29.71	100	87	P	V
		5350.56	46.13	-7.87	54	31.36	31.1	13.38	29.71	100	87	A	V

802.11a CH 64 5320MHz	*	5320	121.78	-	-	106.99	31.16	13.33	29.7	277	52	P	H
	*	5320	114.14	-	-	99.35	31.16	13.33	29.7	277	52	A	H
		5350.24	61	-13	74	46.23	31.1	13.38	29.71	277	52	P	H
		5350.08	51.74	-2.26	54	36.97	31.1	13.38	29.71	277	52	A	H
													H
													H
	*	5320	115.64	-	-	100.85	31.16	13.33	29.7	100	88	P	V
	*	5320	107.77	-	-	92.98	31.16	13.33	29.7	100	88	A	V
		5352.32	55.28	-18.72	74	40.5	31.11	13.38	29.71	100	88	P	V
		5351.36	45.41	-8.59	54	30.63	31.11	13.38	29.71	100	88	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+3	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 52 5260MHz		10520	49.17	-19.03	68.2	46.06	39.8	19.49	56.18	100	0	P	H
		15780	52.17	-21.83	74	46.91	37.32	23.4	55.46	198	149	P	H
		15780	43.79	-10.21	54	38.53	37.32	23.4	55.46	198	149	A	H
													H
		10520	48.75	-19.45	68.2	45.64	39.8	19.49	56.18	100	0	P	V
		15780	54.97	-19.03	74	49.71	37.32	23.4	55.46	251	224	P	V
		15780	46.53	-7.47	54	41.27	37.32	23.4	55.46	251	224	A	V
													V
802.11a CH 60 5300MHz		10600	50.3	-23.7	74	47.09	39.8	19.53	56.12	100	0	P	H
		15900	49.12	-24.88	74	43.61	37.5	23.49	55.48	100	0	P	H
													H
													H
		10600	50.16	-23.84	74	46.95	39.8	19.53	56.12	100	0	P	V
		15900	48.86	-25.14	74	43.35	37.5	23.49	55.48	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.64	-25.36	74	45.38	39.8	19.55	56.09	100	0	P	H
		15960	46.3	-27.7	74	40.94	37.32	23.53	55.49	100	0	P	H
													H
													H
		10640	48.64	-25.36	74	45.38	39.8	19.55	56.09	100	0	P	V
		15960	45.39	-28.61	74	40.03	37.32	23.53	55.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5135.32	56.35	-17.65	74	41.19	31.8	13.03	29.67	277	51	P	H
		5070.04	48.65	-5.35	54	33.68	31.68	12.95	29.66	277	51	A	H
	*	5260	127.72	-	-	112.91	31.28	13.22	29.69	277	51	P	H
	*	5260	117.16	-	-	102.35	31.28	13.22	29.69	277	51	A	H
802.11ax		5358.96	58	-16	74	43.17	31.14	13.4	29.71	277	51	P	H
HE20 Full		5359.2	49.65	-4.35	54	34.82	31.14	13.4	29.71	277	51	A	H
CH 52		5063.92	55.5	-18.5	74	40.56	31.66	12.94	29.66	100	87	P	V
5260MHz		5069.02	46.86	-7.14	54	31.89	31.68	12.95	29.66	100	87	A	V
	*	5260	123.7	-	-	108.89	31.28	13.22	29.69	100	87	P	V
	*	5260	112.82	-	-	98.01	31.28	13.22	29.69	100	87	A	V
		5450.4	54.7	-19.3	74	39.31	31.6	13.51	29.72	100	87	P	V
		5355.36	44.84	-9.16	54	30.04	31.12	13.39	29.71	100	87	A	V
		5104.38	58.78	-15.22	74	43.66	31.8	12.99	29.67	267	51	P	H
		5114.24	48.99	-5.01	54	33.86	31.8	13	29.67	267	51	A	H
	*	5300	127.09	-	-	112.3	31.2	13.29	29.7	267	51	P	H
	*	5300	117.7	-	-	102.91	31.2	13.29	29.7	267	51	A	H
802.11ax		5352.24	62.15	-11.85	74	47.37	31.11	13.38	29.71	267	51	P	H
HE20 Full		5350.08	53.16	-0.84	54	38.39	31.1	13.38	29.71	267	51	A	H
CH 60		5100.98	55.86	-18.14	74	40.74	31.8	12.99	29.67	100	87	P	V
5300MHz		5112.54	45.87	-8.13	54	30.74	31.8	13	29.67	100	87	A	V
	*	5300	122.11	-	-	107.32	31.2	13.29	29.7	100	87	P	V
	*	5300	111.36	-	-	96.57	31.2	13.29	29.7	100	87	A	V
		5357.28	55.36	-18.64	74	40.55	31.13	13.39	29.71	100	87	P	V
		5350.08	44.98	-9.02	54	30.21	31.1	13.38	29.71	100	87	A	V

	*	5320	123.99	-	-	109.2	31.16	13.33	29.7	273	50	P	H
	*	5320	113.75	-	-	98.96	31.16	13.33	29.7	273	50	A	H
		5351.2	64.23	-9.77	74	49.46	31.1	13.38	29.71	273	50	P	H
		5350.08	53.85	-0.15	54	39.08	31.1	13.38	29.71	273	50	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	117.63	-	-	102.84	31.16	13.33	29.7	102	88	P	V
5320MHz	*	5320	107.66	-	-	92.87	31.16	13.33	29.7	102	88	A	V
		5357.28	54.86	-19.14	74	40.05	31.13	13.39	29.71	102	88	P	V
		5350.08	46.02	-7.98	54	31.25	31.1	13.38	29.71	102	88	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		10520	48.69	-19.51	68.2	45.58	39.8	19.49	56.18	100	0	P	H
		15780	52.98	-21.02	74	47.72	37.32	23.4	55.46	100	0	P	H
802.11ax		15780	42.71	-11.29	54	37.45	37.32	23.4	55.46	100	0	A	H
HE20 Full													H
CH 52		10520	48.76	-19.44	68.2	45.65	39.8	19.49	56.18	100	0	P	V
5260MHz		15780	55.36	-18.64	74	50.1	37.32	23.4	55.46	255	225	P	V
		15780	44.61	-9.39	54	39.35	37.32	23.4	55.46	255	225	A	V
													V
		10600	49.13	-24.87	74	45.92	39.8	19.53	56.12	100	0	P	H
		15900	47.59	-26.41	74	42.08	37.5	23.49	55.48	100	0	P	H
802.11ax													H
HE20 Full													H
CH 60		10600	49.34	-24.66	74	46.13	39.8	19.53	56.12	100	0	P	V
5300MHz		15900	49.14	-24.86	74	43.63	37.5	23.49	55.48	100	0	P	V
													V
													V
		10640	48.88	-25.12	74	45.62	39.8	19.55	56.09	100	0	P	H
		15960	45.76	-28.24	74	40.4	37.32	23.53	55.49	100	0	P	H
802.11ax													H
HE20 Full													H
CH 64		10640	48.47	-25.53	74	45.21	39.8	19.55	56.09	100	0	P	V
5320MHz		15960	45.68	-28.32	74	40.32	37.32	23.53	55.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5071.4	56.52	-17.48	74	41.54	31.69	12.95	29.66	271	51	P	H
		5088.06	46.67	-7.33	54	31.61	31.75	12.97	29.66	271	51	A	H
	*	5270	122.97	-	-	108.16	31.26	13.24	29.69	271	51	P	H
	*	5270	113.83	-	-	99.02	31.26	13.24	29.69	271	51	A	H
802.11ax		5350.8	63.46	-10.54	74	48.69	31.1	13.38	29.71	271	51	P	H
HE40 Full		5350.08	53.83	-0.17	54	39.06	31.1	13.38	29.71	271	51	A	H
CH 54													V
5270MHz		5077.86	54.24	-19.76	74	39.23	31.71	12.96	29.66	100	88	P	V
		5068.34	44.98	-9.02	54	30.02	31.67	12.95	29.66	100	88	A	V
	*	5270	118.38	-	-	103.57	31.26	13.24	29.69	100	88	P	V
	*	5270	108.47	-	-	93.66	31.26	13.24	29.69	100	88	A	V
		5355.6	55.51	-18.49	74	40.71	31.12	13.39	29.71	100	88	P	V
		5096.9	53.82	-20.18	74	38.72	31.79	12.98	29.67	268	51	P	H
		5129.2	44.28	-9.72	54	29.13	31.8	13.02	29.67	268	51	A	H
	*	5310	118.61	-	-	103.82	31.18	13.31	29.7	268	51	P	H
	*	5310	108.11	-	-	93.32	31.18	13.31	29.7	268	51	A	H
802.11ax		5351.76	60.65	-13.35	74	45.87	31.11	13.38	29.71	268	51	P	H
HE40 Full		5350.56	53.11	-0.89	54	38.34	31.1	13.38	29.71	268	51	A	H
CH 62		5129.54	54.21	-19.79	74	39.06	31.8	13.02	29.67	102	88	P	V
5310MHz		5108.12	43.04	-10.96	54	27.91	31.8	13	29.67	102	88	A	V
	*	5310	112.18	-	-	97.39	31.18	13.31	29.7	102	88	P	V
	*	5310	101.74	-	-	86.95	31.18	13.31	29.7	102	88	A	V
		5350.8	54.65	-19.35	74	39.88	31.1	13.38	29.71	102	88	P	V
		5350.08	45.53	-8.47	54	30.76	31.1	13.38	29.71	102	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		10540	48.7	-19.5	68.2	45.57	39.8	19.5	56.17	100	0	P	H
		15810	45	-29	74	39.72	37.32	23.42	55.46	100	0	P	H
802.11ax													H
HE40 Full													H
CH 54		10540	47.78	-20.42	68.2	44.65	39.8	19.5	56.17	100	0	P	V
5270MHz		15810	46.04	-27.96	74	40.76	37.32	23.42	55.46	100	0	P	V
													V
													V
		10620	48.54	-25.46	74	45.3	39.8	19.54	56.1	100	0	P	H
		15930	46.52	-27.48	74	41.09	37.41	23.51	55.49	100	0	P	H
802.11ax													H
HE40 Full													H
CH 62		10620	49.33	-24.67	74	46.09	39.8	19.54	56.1	100	0	P	V
5310MHz		15930	46.18	-27.82	74	40.75	37.41	23.51	55.49	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5075.14	53.97	-20.03	74	38.98	31.7	12.95	29.66	267	51	P	H
		5149.6	44.01	-9.99	54	28.83	31.8	13.05	29.67	267	51	A	H
	*	5290	114.28	-	-	99.49	31.22	13.27	29.7	267	51	P	H
	*	5290	104.5	-	-	89.71	31.22	13.27	29.7	267	51	A	H
802.11ax		5357.76	60.84	-13.16	74	46.03	31.13	13.39	29.71	267	51	P	H
HE80 Full		5350.08	53.13	-0.87	54	38.36	31.1	13.38	29.71	267	51	A	H
CH 58		5022.1	53.51	-20.49	74	38.73	31.54	12.89	29.65	100	87	P	V
5290MHz		5104.72	42.76	-11.24	54	27.64	31.8	12.99	29.67	100	87	A	V
	*	5290	108.47	-	-	93.68	31.22	13.27	29.7	100	87	P	V
	*	5290	98.68	-	-	83.89	31.22	13.27	29.7	100	87	A	V
		5354.88	56.44	-17.56	74	41.64	31.12	13.39	29.71	100	87	P	V
		5355.12	46.33	-7.67	54	31.53	31.12	13.39	29.71	100	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		10580	48.74	-19.46	68.2	45.56	39.8	19.52	56.14	100	0	P	H
		15870	45.86	-28.14	74	40.42	37.44	23.47	55.47	100	0	P	H
802.11ax													H
HE80 Full													H
CH 58		10580	48.33	-19.87	68.2	45.15	39.8	19.52	56.14	100	0	P	V
5290MHz		15870	45.65	-28.35	74	40.21	37.44	23.47	55.47	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+3	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 100 5500MHz		5457.84	60.44	-13.56	74	45.02	31.62	13.52	29.72	264	53	P	H
		5468.4	66.04	-2.16	68.2	50.59	31.64	13.53	29.72	264	53	P	H
		5457.68	48.85	-5.15	54	33.43	31.62	13.52	29.72	264	53	A	H
	*	5500	121.06	-	-	105.53	31.7	13.56	29.73	264	53	P	H
	*	5500	113.49	-	-	97.96	31.7	13.56	29.73	264	53	A	H
													H
		5457.84	56.28	-17.72	74	40.86	31.62	13.52	29.72	281	48	P	V
		5467.12	62.28	-5.92	68.2	46.84	31.63	13.53	29.72	281	48	P	V
		5457.36	46.36	-7.64	54	30.95	31.61	13.52	29.72	281	48	A	V
	*	5500	119.66	-	-	104.13	31.7	13.56	29.73	281	48	P	V
	*	5500	112.09	-	-	96.56	31.7	13.56	29.73	281	48	A	V
													V
802.11a CH 116 5580MHz		5390.56	57.69	-16.31	74	42.69	31.26	13.45	29.71	289	53	P	H
		5464.24	55.23	-12.97	68.2	39.8	31.63	13.52	29.72	289	53	P	H
		5390.32	50.41	-3.59	54	35.41	31.26	13.45	29.71	289	53	A	H
	*	5580	121.82	-	-	106.3	31.66	13.62	29.76	289	53	P	H
	*	5580	114.36	-	-	98.84	31.66	13.62	29.76	289	53	A	H
		5731.61	54.11	-14.09	68.2	38.28	31.89	13.76	29.82	289	53	P	H
		5390.08	55.11	-18.89	74	40.11	31.26	13.45	29.71	287	47	P	V
		5466.88	54.1	-14.1	68.2	38.66	31.63	13.53	29.72	287	47	P	V
		5394.88	45.98	-8.02	54	30.95	31.28	13.46	29.71	287	47	A	V
	*	5580	123.18	-	-	107.66	31.66	13.62	29.76	287	47	P	V
	*	5580	115.39	-	-	99.87	31.66	13.62	29.76	287	47	A	V
		5753.975	54.51	-13.69	68.2	38.56	32	13.78	29.83	287	47	P	V

802.11a CH 140 5700MHz	*	5700	118.29	-	-	102.67	31.7	13.73	29.81	252	43	P	H
	*	5700	110.43	-	-	94.81	31.7	13.73	29.81	252	43	A	H
		5726.84	67.16	-1.04	68.2	51.37	31.86	13.75	29.82	252	43	P	H
													H
													H
													H
	*	5700	116.34	-	-	100.72	31.7	13.73	29.81	250	24	P	V
	*	5700	108.24	-	-	92.62	31.7	13.73	29.81	250	24	A	V
		5726.68	64.89	-3.31	68.2	49.1	31.86	13.75	29.82	250	24	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+3	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 100 5500MHz		11000	52.63	-21.37	74	48.58	40.1	19.75	55.8	242	167	P	H
		11000	43.38	-10.62	54	39.33	40.1	19.75	55.8	242	167	A	H
		16500	48.04	-20.16	68.2	40.42	39	24.32	55.7	100	0	P	H
													H
		11000	55.81	-18.19	74	51.76	40.1	19.75	55.8	101	246	P	V
		11000	45.77	-8.23	54	41.72	40.1	19.75	55.8	101	246	A	V
		16500	49.24	-18.96	68.2	41.62	39	24.32	55.7	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	52.09	-21.91	74	48.1	39.82	19.87	55.7	249	175	P	H
		11160	42.55	-11.45	54	38.56	39.82	19.87	55.7	249	175	A	H
		16740	58.65	-9.55	68.2	50.26	39.74	24.69	56.04	100	0	P	H
													H
		11160	56.58	-17.42	74	52.59	39.82	19.87	55.7	100	293	P	V
		11160	48.09	-5.91	54	44.1	39.82	19.87	55.7	100	293	A	V
		16740	58.27	-9.93	68.2	49.88	39.74	24.69	56.04	100	0	P	V
													V
802.11a CH 140 5700MHz		11400	60.52	-13.48	74	56.04	40	20.04	55.56	100	0	P	H
		11400	51.06	-2.94	54	46.58	40	20.04	55.56	100	0	A	H
		17100	49.51	-18.69	68.2	40.54	40.4	25.11	56.54	100	0	P	H
													H
		11400	57.85	-16.15	74	53.37	40	20.04	55.56	100	64	P	V
		11400	47.63	-6.37	54	43.15	40	20.04	55.56	100	64	A	V
		17100	48.92	-19.28	68.2	39.95	40.4	25.11	56.54	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5458.48	59.35	-14.65	74	43.93	31.62	13.52	29.72	265	53	P	H
		5470	65.92	-2.28	68.2	50.48	31.64	13.53	29.73	265	53	P	H
		5458.32	48.64	-5.36	54	33.22	31.62	13.52	29.72	265	53	A	H
	*	5500	123.46	-	-	107.93	31.7	13.56	29.73	265	53	P	H
802.11ax	*	5500	112.73	-	-	97.2	31.7	13.56	29.73	265	53	A	H
HE20 Full		5454.48	55.53	-18.47	74	40.12	31.61	13.52	29.72	276	51	P	V
CH 100		5470	61.44	-6.76	68.2	46	31.64	13.53	29.73	276	51	P	V
5500MHz		5454.8	45.52	-8.48	54	30.11	31.61	13.52	29.72	276	51	A	V
	*	5500	121.32	-	-	105.79	31.7	13.56	29.73	276	51	P	V
	*	5500	111.55	-	-	96.02	31.7	13.56	29.73	276	51	A	V
													V
													V
		5392	59.25	-14.75	74	44.23	31.27	13.46	29.71	292	54	P	H
		5464.72	55.39	-12.81	68.2	39.95	31.63	13.53	29.72	292	54	P	H
		5392.24	48.85	-5.15	54	33.83	31.27	13.46	29.71	292	54	A	H
	*	5580	124.14	-	-	108.62	31.66	13.62	29.76	292	54	P	H
802.11ax	*	5580	113.98	-	-	98.46	31.66	13.62	29.76	292	54	A	H
HE20 Full		5762.795	54.91	-13.29	68.2	38.95	32	13.79	29.83	292	54	P	H
CH 116		5459.2	54.89	-19.11	74	39.47	31.62	13.52	29.72	268	50	P	V
5580MHz		5467.12	55.58	-12.62	68.2	40.14	31.63	13.53	29.72	268	50	P	V
		5392	45.61	-8.39	54	30.59	31.27	13.46	29.71	268	50	A	V
	*	5580	123.68	-	-	108.16	31.66	13.62	29.76	268	50	P	V
	*	5580	115.15	-	-	99.63	31.66	13.62	29.76	268	50	A	V
		5725.94	53.93	-14.27	68.2	38.14	31.86	13.75	29.82	268	50	P	V

	*	5700	119.4	-	-	103.78	31.7	13.73	29.81	261	42	P	H
	*	5700	109.51	-	-	93.89	31.7	13.73	29.81	261	42	A	H
		5725	66.74	-1.46	68.2	50.96	31.85	13.75	29.82	261	42	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	116.15	-	-	100.53	31.7	13.73	29.81	249	61	P	V
5700MHz	*	5700	105.44	-	-	89.82	31.7	13.73	29.81	249	61	A	V
		5725.16	61.5	-6.7	68.2	45.72	31.85	13.75	29.82	249	61	P	V
													V
													V
													V

Remark

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

Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11000	51.38	-22.62	74	47.33	40.1	19.75	55.8	100	0	P	H
		16500	48.07	-20.13	68.2	40.45	39	24.32	55.7	100	0	P	H
802.11ax													H
HE20 Full													H
CH 100		11000	50.24	-23.76	74	46.19	40.1	19.75	55.8	100	0	P	V
5500MHz		16500	50.71	-17.49	68.2	43.09	39	24.32	55.7	100	0	P	V
													V
													V
		11160	54.41	-19.59	74	50.42	39.82	19.87	55.7	100	78	P	H
		11160	45.31	-8.69	54	41.32	39.82	19.87	55.7	100	78	A	H
802.11ax		16740	58.04	-10.16	68.2	49.65	39.74	24.69	56.04	100	0	P	H
HE20 Full													H
CH 116		11160	56.14	-17.86	74	52.15	39.82	19.87	55.7	100	287	P	V
5580MHz		11160	46.33	-7.67	54	42.34	39.82	19.87	55.7	100	287	A	V
		16740	59.29	-8.91	68.2	50.9	39.74	24.69	56.04	100	0	P	V
													V
		11400	55.42	-18.58	74	50.94	40	20.04	55.56	100	95	P	H
		11400	44.87	-9.13	54	40.39	40	20.04	55.56	100	95	A	H
802.11ax		17100	55.04	-13.16	68.2	46.07	40.4	25.11	56.54	100	0	P	H
HE20 Full													H
CH 140		11400	53.55	-20.45	74	49.07	40	20.04	55.56	106	332	P	V
5700MHz		11400	43.33	-10.67	54	38.85	40	20.04	55.56	106	332	A	V
		17100	50.6	-17.6	68.2	41.63	40.4	25.11	56.54	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5457.76	59.9	-14.1	74	44.48	31.62	13.52	29.72	265	52	P	H
		5466.64	67.04	-1.16	68.2	51.6	31.63	13.53	29.72	265	52	P	H
		5458.48	49.63	-4.37	54	34.21	31.62	13.52	29.72	265	52	A	H
	*	5510	116.98	-	-	101.47	31.68	13.56	29.73	265	52	P	H
802.11ax	*	5510	106.58	-	-	91.07	31.68	13.56	29.73	265	52	A	H
HE40 Full		5756.18	54.14	-14.06	68.2	38.19	32	13.78	29.83	265	52	P	H
CH 102		5459.92	56.58	-17.42	74	41.16	31.62	13.52	29.72	275	51	P	V
5510MHz		5464.72	61.27	-6.93	68.2	45.83	31.63	13.53	29.72	275	51	P	V
		5459.92	45.94	-8.06	54	30.52	31.62	13.52	29.72	275	51	A	V
	*	5510	115.67	-	-	100.16	31.68	13.56	29.73	275	51	P	V
	*	5510	106.09	-	-	90.58	31.68	13.56	29.73	275	51	A	V
		5753.975	54.45	-13.75	68.2	38.5	32	13.78	29.83	275	51	P	V
		5457.52	61.79	-12.21	74	46.37	31.62	13.52	29.72	294	54	P	H
		5468.8	66.76	-1.44	68.2	51.32	31.64	13.53	29.73	294	54	P	H
		5459.68	51.62	-2.38	54	36.2	31.62	13.52	29.72	294	54	A	H
	*	5550	119.8	-	-	104.35	31.6	13.6	29.75	294	54	P	H
802.11ax	*	5550	110.79	-	-	95.34	31.6	13.6	29.75	294	54	A	H
HE40 Full		5752.715	54.59	-13.61	68.2	38.64	32	13.78	29.83	294	54	P	H
CH 110		5457.28	58.38	-15.62	74	42.97	31.61	13.52	29.72	268	51	P	V
5550MHz		5468.56	64.44	-3.76	68.2	48.99	31.64	13.53	29.72	268	51	P	V
		5459.92	48.25	-5.75	54	32.83	31.62	13.52	29.72	268	51	A	V
	*	5550	122.02	-	-	106.57	31.6	13.6	29.75	268	51	P	V
	*	5550	111.52	-	-	96.07	31.6	13.6	29.75	268	51	A	V
		5747.99	55.98	-12.22	68.2	40.04	31.99	13.77	29.82	268	51	P	V

		5410.55	55.73	-18.27	74	40.61	31.36	13.48	29.72	283	50	P	H
		5467.25	56.07	-12.13	68.2	40.63	31.63	13.53	29.72	283	50	P	H
		5375.9	47.64	-6.36	54	32.72	31.2	13.43	29.71	283	50	A	H
	*	5670	118.62	-	-	103.07	31.64	13.7	29.79	283	50	P	H
802.11ax	*	5670	108.46	-	-	92.91	31.64	13.7	29.79	283	50	A	H
HE40 Full		5726.5	66.57	-1.63	68.2	50.78	31.86	13.75	29.82	283	50	P	H
CH 134		5444.15	53.74	-20.26	74	38.39	31.56	13.51	29.72	277	51	P	V
5670MHz		5467.95	54.89	-13.31	68.2	39.44	31.64	13.53	29.72	277	51	P	V
		5459.55	44.67	-9.33	54	29.25	31.62	13.52	29.72	277	51	A	V
	*	5670	118.02	-	-	102.47	31.64	13.7	29.79	277	51	P	V
	*	5670	108.04	-	-	92.49	31.64	13.7	29.79	277	51	A	V
		5726.15	64.25	-3.95	68.2	48.46	31.86	13.75	29.82	277	51	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11020	49.72	-24.28	74	45.67	40.08	19.76	55.79	100	0	P	H
		16530	47.51	-20.69	68.2	39.77	39.12	24.36	55.74	100	0	P	H
802.11ax													H
HE40 Full													H
CH 102		11020	49.2	-24.8	74	45.15	40.08	19.76	55.79	100	0	P	V
5510MHz		16530	47.74	-20.46	68.2	40	39.12	24.36	55.74	100	0	P	V
													V
													V
		11100	49.52	-24.48	74	45.44	40	19.82	55.74	100	0	P	H
		16650	52.82	-15.38	68.2	44.74	39.45	24.54	55.91	100	0	P	H
802.11ax													H
HE40 Full													H
CH 110		11100	52.63	-21.37	74	48.55	40	19.82	55.74	100	339	P	V
5550MHz		11100	42.97	-11.03	54	38.89	40	19.82	55.74	100	339	A	V
													V
													V
		11340	53.03	-20.97	74	48.81	39.82	20	55.6	100	24	P	H
		11340	43.88	-10.12	54	39.66	39.82	20	55.6	100	24	A	H
802.11ax		17010	49.87	-18.33	68.2	40.71	40.49	25.08	56.41	100	0	P	H
HE40 Full													H
CH 134		11340	49.87	-24.13	74	45.65	39.82	20	55.6	100	0	P	V
5670MHz		17010	49.68	-18.52	68.2	40.52	40.49	25.08	56.41	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5457.28	63.27	-10.73	74	47.86	31.61	13.52	29.72	263	52	P	H
		5465.2	64.79	-3.41	68.2	49.35	31.63	13.53	29.72	263	52	P	H
		5456.8	53.71	-0.29	54	38.3	31.61	13.52	29.72	263	52	A	H
	*	5530	111.25	-	-	95.77	31.64	13.58	29.74	263	52	P	H
802.11ax	*	5530	101.41	-	-	85.93	31.64	13.58	29.74	263	52	A	H
HE80 Full		5765	53.69	-14.51	68.2	37.73	32	13.79	29.83	263	52	P	H
CH 106		5452.72	59.84	-14.16	74	44.44	31.61	13.51	29.72	275	52	P	V
5530MHz		5462.08	61.69	-6.51	68.2	46.27	31.62	13.52	29.72	275	52	P	V
		5452.96	50	-4	54	34.59	31.61	13.52	29.72	275	52	A	V
	*	5530	110.44	-	-	94.96	31.64	13.58	29.74	275	52	P	V
	*	5530	103.25	-	-	87.77	31.64	13.58	29.74	275	52	A	V
		5733.815	54.01	-14.19	68.2	38.17	31.9	13.76	29.82	275	52	P	V
		5454.64	62.28	-11.72	74	46.87	31.61	13.52	29.72	292	50	P	H
		5462.56	63.09	-5.11	68.2	47.66	31.63	13.52	29.72	292	50	P	H
		5459.92	53.16	-0.84	54	37.74	31.62	13.52	29.72	292	50	A	H
	*	5610	114.82	-	-	99.26	31.68	13.65	29.77	292	50	P	H
802.11ax	*	5610	105.99	-	-	90.43	31.68	13.65	29.77	292	50	A	H
HE80 Full		5728.775	63.96	-4.24	68.2	48.15	31.87	13.76	29.82	292	50	P	H
CH 122		5456.56	61.48	-12.52	74	46.07	31.61	13.52	29.72	282	50	P	V
5610MHz		5468.32	62.18	-6.02	68.2	46.73	31.64	13.53	29.72	282	50	P	V
		5457.52	50.35	-3.65	54	34.93	31.62	13.52	29.72	282	50	A	V
	*	5610	115.82	-	-	100.26	31.68	13.65	29.77	282	50	P	V
	*	5610	106.77	-	-	91.21	31.68	13.65	29.77	282	50	A	V
		5736.335	63.75	-4.45	68.2	47.89	31.92	13.76	29.82	282	50	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11060	48.38	-25.62	74	44.31	40.04	19.79	55.76	100	0	P	H
		16590	47.57	-20.63	68.2	39.59	39.36	24.45	55.83	100	0	P	H
802.11ax													H
HE80 Full													H
CH 106		11060	48.1	-25.9	74	44.03	40.04	19.79	55.76	100	0	P	V
5530MHz		16590	47.48	-20.72	68.2	39.5	39.36	24.45	55.83	100	0	P	V
													V
													V
		11220	48.58	-25.42	74	44.64	39.7	19.91	55.67	100	0	P	H
		16830	48.98	-19.22	68.2	40.07	40.25	24.82	56.16	100	0	P	H
802.11ax													H
HE80 Full													H
CH 122		11220	49.46	-24.54	74	45.52	39.7	19.91	55.67	100	0	P	V
5610MHz		16830	49.43	-18.77	68.2	40.52	40.25	24.82	56.16	100	0	P	V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+3	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 144 5720MHz		5410.84	55.01	-18.99	74	39.88	31.37	13.48	29.72	250	40	P	H
		5460.76	54.94	-13.26	68.2	39.52	31.62	13.52	29.72	250	40	P	H
		5376.13	45.59	-8.41	54	30.67	31.2	13.43	29.71	250	40	A	H
	*	5720	121.02	-	-	105.26	31.82	13.75	29.81	250	40	P	H
	*	5720	113.81	-	-	98.05	31.82	13.75	29.81	250	40	A	H
		5918.5	58.37	-9.83	68.2	42.21	32.24	13.81	29.89	250	40	P	H
		5388.22	54.97	-19.03	74	39.98	31.25	13.45	29.71	252	26	P	V
		5461.93	55.02	-13.18	68.2	39.6	31.62	13.52	29.72	252	26	P	V
		5454.91	44.12	-9.88	54	28.71	31.61	13.52	29.72	252	26	A	V
	*	5720	120.01	-	-	104.25	31.82	13.75	29.81	252	26	P	V
	*	5720	112.45	-	-	96.69	31.82	13.75	29.81	252	26	A	V
		5918.5	56.71	-11.49	68.2	40.55	32.24	13.81	29.89	252	26	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+3	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 144 5720MHz		11440	59.44	-14.56	74	54.95	39.96	20.07	55.54	199	22	P	H
		11440	49.92	-4.08	54	45.43	39.96	20.07	55.54	199	22	A	H
		17160	58	-10.2	68.2	48.85	40.64	25.13	56.62	100	0	P	H
													H
		11440	58.37	-15.63	74	53.88	39.96	20.07	55.54	100	15	P	V
		11440	50.35	-3.65	54	45.86	39.96	20.07	55.54	100	15	A	V
		17160	54.77	-13.43	68.2	45.62	40.64	25.13	56.62	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5427.61	58.54	-15.46	74	43.3	31.47	13.49	29.72	269	49	P	H
		5467	58.11	-10.09	68.2	42.67	31.63	13.53	29.72	269	49	P	H
		5375.74	48.42	-5.58	54	33.5	31.2	13.43	29.71	269	49	A	H
	*	5720	122.94	-	-	107.18	31.82	13.75	29.81	269	49	P	H
802.11ax	*	5720	112.81	-	-	97.05	31.82	13.75	29.81	269	49	A	H
HE20 Full		5917.25	58.99	-9.21	68.2	42.84	32.23	13.81	29.89	269	49	P	H
CH 144		5427.61	55.68	-18.32	74	40.44	31.47	13.49	29.72	248	67	P	V
5720MHz		5464.27	56.19	-12.01	68.2	40.76	31.63	13.52	29.72	248	67	P	V
		5459.59	43.2	-10.8	54	27.78	31.62	13.52	29.72	248	67	A	V
	*	5720	120.38	-	-	104.62	31.82	13.75	29.81	248	67	P	V
	*	5720	110.29	-	-	94.53	31.82	13.75	29.81	248	67	A	V
		5919.5	57.5	-10.7	68.2	41.34	32.24	13.81	29.89	248	67	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11440	58.93	-15.07	74	54.44	39.96	20.07	55.54	200	20	P	H
		11440	49.54	-4.46	54	45.05	39.96	20.07	55.54	200	20	A	H
802.11ax		17160	54.29	-13.91	68.2	45.14	40.64	25.13	56.62	100	0	P	H
HE20 Full													H
CH 144		11440	58.82	-15.18	74	54.33	39.96	20.07	55.54	100	14	P	V
5720MHz		11440	49.44	-4.56	54	44.95	39.96	20.07	55.54	100	14	A	V
		17160	55.22	-12.98	68.2	46.07	40.64	25.13	56.62	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5364.04	57.37	-16.63	74	42.51	31.16	13.41	29.71	258	41	P	H
		5461.54	56.5	-11.7	68.2	41.08	31.62	13.52	29.72	258	41	P	H
		5375.74	45.71	-8.29	54	30.79	31.2	13.43	29.71	258	41	A	H
	*	5710	120.91	-	-	105.22	31.76	13.74	29.81	258	41	P	H
802.11ax	*	5710	111.32	-	-	95.63	31.76	13.74	29.81	258	41	A	H
HE40 Full		5897	59.13	-9.07	68.2	43.01	32.19	13.81	29.88	258	41	P	H
CH 142		5455.69	55.15	-18.85	74	39.74	31.61	13.52	29.72	236	66	P	V
5710MHz		5465.44	55.24	-12.96	68.2	39.8	31.63	13.53	29.72	236	66	P	V
		5434.24	43.16	-10.84	54	27.87	31.51	13.5	29.72	236	66	A	V
	*	5710	117.51	-	-	101.82	31.76	13.74	29.81	236	66	P	V
	*	5710	108.31	-	-	92.62	31.76	13.74	29.81	236	66	A	V
		5896.75	57.42	-10.78	68.2	41.3	32.19	13.81	29.88	236	66	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11420	56.9	-17.1	74	52.41	39.98	20.06	55.55	200	20	P	H
		11420	47.85	-6.15	54	43.36	39.98	20.06	55.55	200	20	A	H
802.11ax		17130	56.96	-11.24	68.2	47.9	40.52	25.12	56.58	100	0	P	H
HE40 Full													H
CH 142		11420	56.31	-17.69	74	51.82	39.98	20.06	55.55	207	187	P	V
5710MHz		11420	47.31	-6.69	54	42.82	39.98	20.06	55.55	207	187	A	V
		17130	53.76	-14.44	68.2	44.7	40.52	25.12	56.58	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 Straddle Channel

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5413.18	59.33	-14.67	74	44.19	31.38	13.48	29.72	291	48	P	H
		5468.17	60.73	-7.47	68.2	45.28	31.64	13.53	29.72	291	48	P	H
		5459.98	48.61	-5.39	54	33.19	31.62	13.52	29.72	291	48	A	H
	*	5690	116.74	-	-	101.14	31.68	13.72	29.8	291	48	P	H
802.11ax	*	5690	107.06	-	-	91.46	31.68	13.72	29.8	291	48	A	H
HE80 Full		5852.25	65.3	-2.9	68.2	49.25	32.1	13.81	29.86	291	48	P	H
CH 138		5428.78	55.89	-18.11	74	40.65	31.47	13.49	29.72	252	23	P	V
5690MHz		5466.22	56.22	-11.98	68.2	40.78	31.63	13.53	29.72	252	23	P	V
		5459.2	44.01	-9.99	54	28.59	31.62	13.52	29.72	252	23	A	V
	*	5690	115.26	-	-	99.66	31.68	13.72	29.8	252	23	P	V
	*	5690	105.15	-	-	89.55	31.68	13.72	29.8	252	23	A	V
		5853.5	61.59	-6.61	68.2	45.53	32.11	13.81	29.86	252	23	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11378	49.7	-24.3	74	45.31	39.93	20.03	55.57	100	0	P	H
		17070	50.75	-17.45	68.2	41.72	40.43	25.1	56.5	100	0	P	H
802.11ax													H
HE80 Full													H
CH 138		11380	53.71	-20.29	74	49.31	39.94	20.03	55.57	100	62	P	V
5690MHz		11380	43.84	-10.16	54	39.44	39.94	20.03	55.57	100	62	A	V
		17070	50.51	-17.69	68.2	41.48	40.43	25.1	56.5	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ax HE20 Full (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+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full LF		91.11	27.96	-15.54	43.5	44.35	14.79	1.46	32.64	-	-	P	H
		284.14	32.88	-13.12	46	43.68	18.97	2.84	32.61	-	-	P	H
		500.45	36.27	-9.73	46	40.99	24.16	3.78	32.66	-	-	P	H
		600.36	37.96	-8.04	46	40.76	25.65	4.22	32.67	-	-	P	H
		729.37	38.99	-7.01	46	39.14	27.74	4.65	32.54	100	0	P	H
		874.87	36.39	-9.61	46	34.63	29.11	5.18	32.53	-	-	P	H
													H
													H
													H
													H
													H
													H
		91.11	29.53	-13.97	43.5	45.92	14.79	1.46	32.64	-	-	P	V
		275.41	31.47	-14.53	46	42.49	18.83	2.79	32.64	-	-	P	V
		480.08	31.07	-14.93	46	36.18	23.79	3.7	32.6	-	-	P	V
		576.11	37.32	-8.68	46	39.95	25.92	4.12	32.67	100	0	P	V
		732.28	36.38	-9.62	46	36.43	27.85	4.65	32.55	-	-	P	V
		903.97	32.35	-13.65	46	30.14	29.26	5.31	32.36	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+3		(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

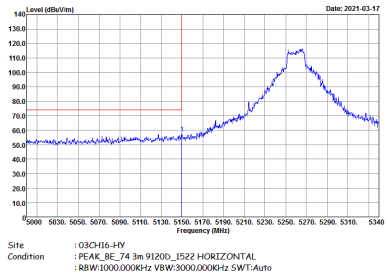
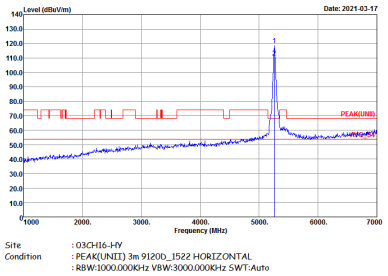
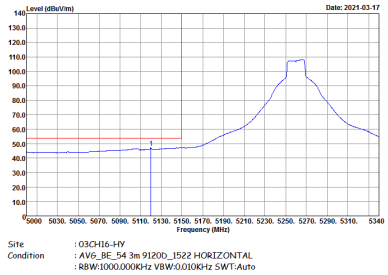
Test Engineer :	Karl Hou, Caster Liao, and Andy Yang	**Temperature :**	20~25°C
		Relative Humidity :	60~60%

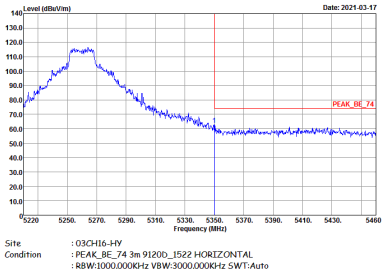
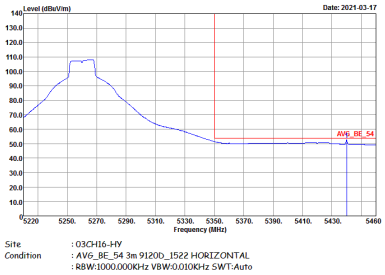
Note symbol

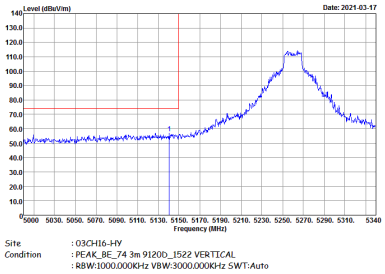
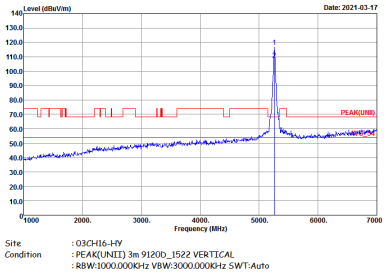
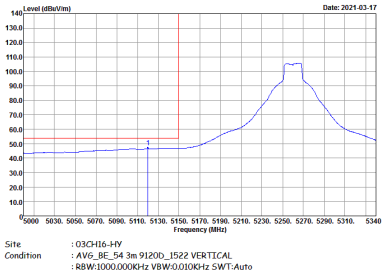
-L	**Low channel location**
-R	**High channel location**

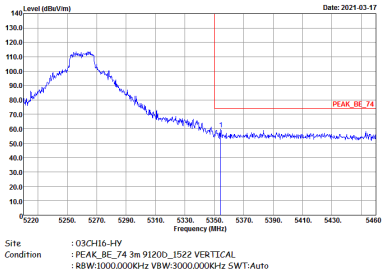
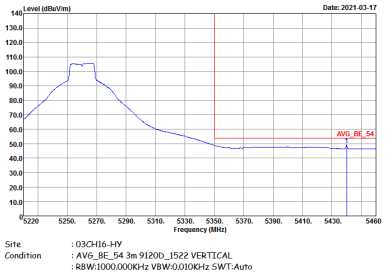
Band 2 - 5250~5350MHz

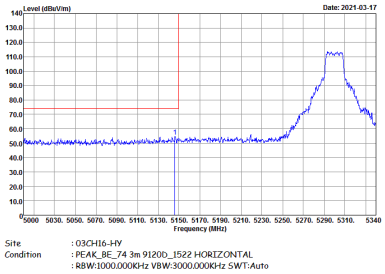
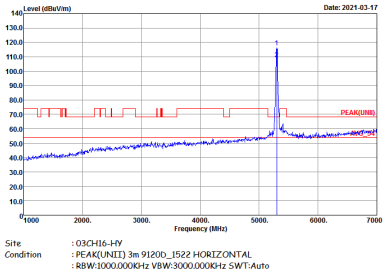
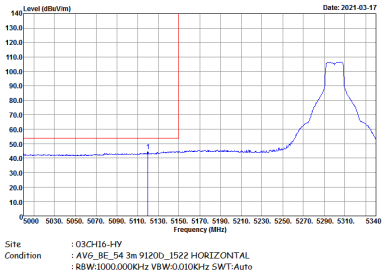
WIFI 802.11a (Band Edge @ 3m)

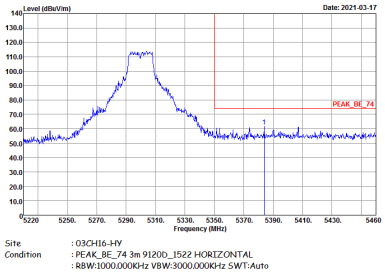
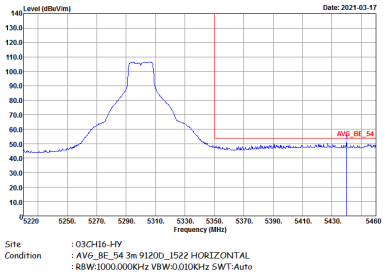
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

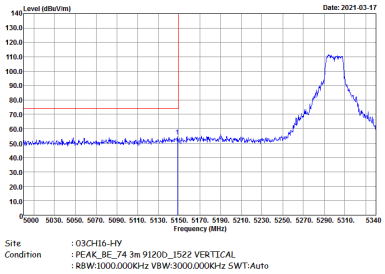
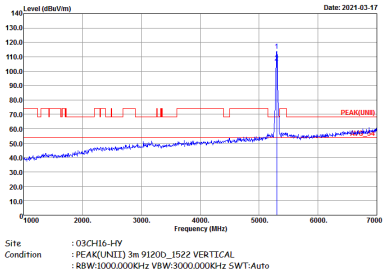
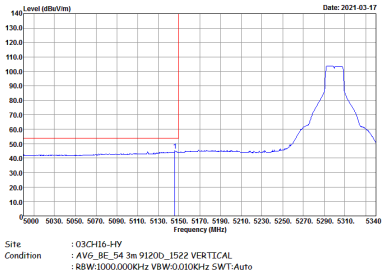
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

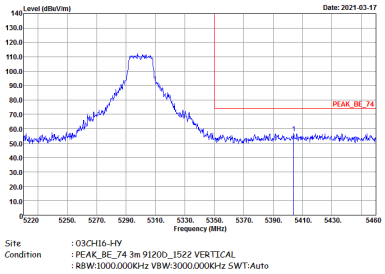
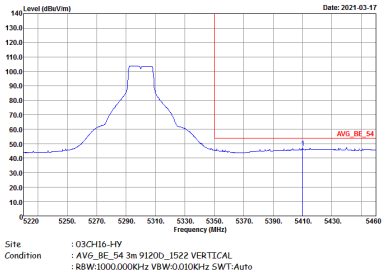
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

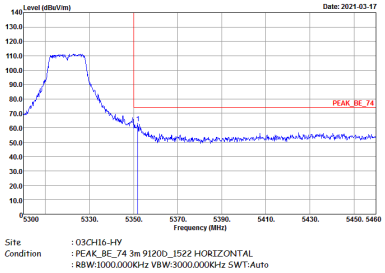
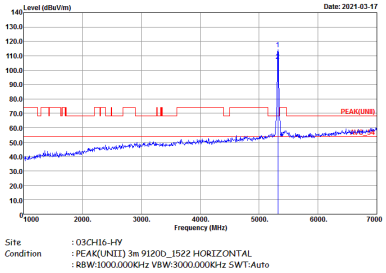
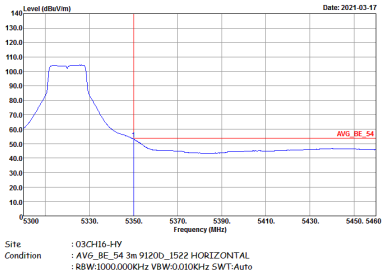
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

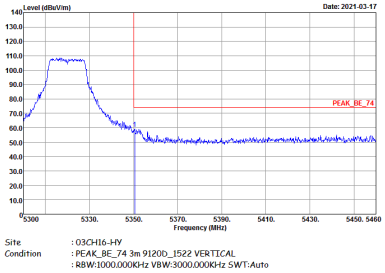
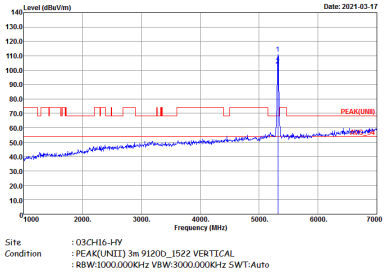
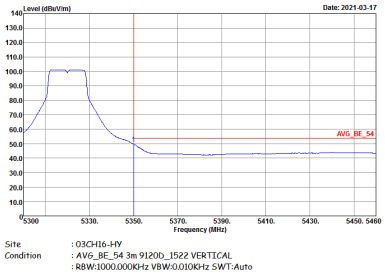
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

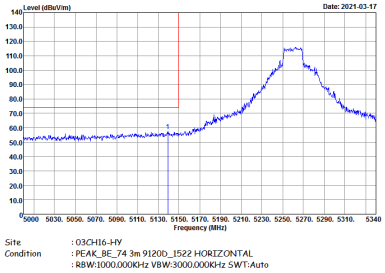
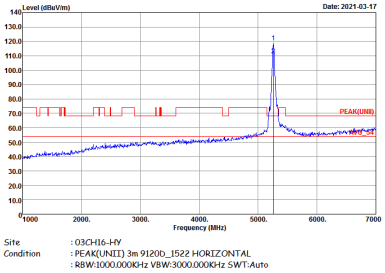
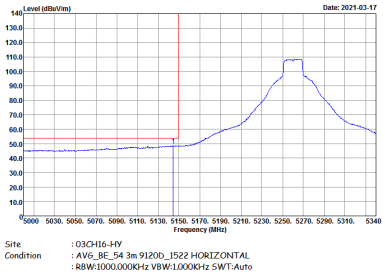
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

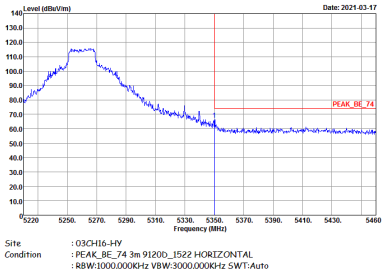
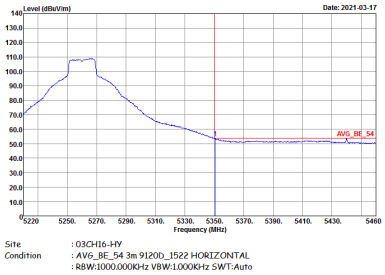
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

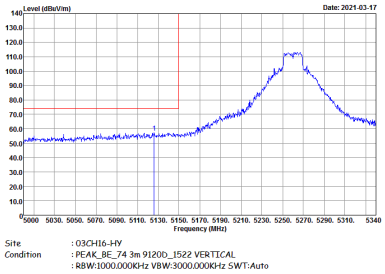
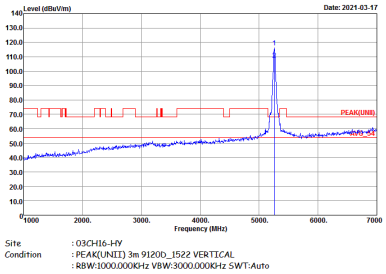
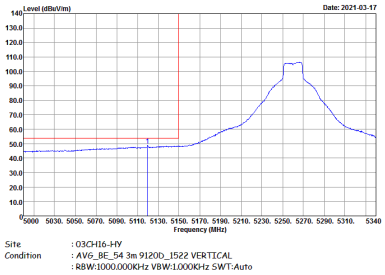
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

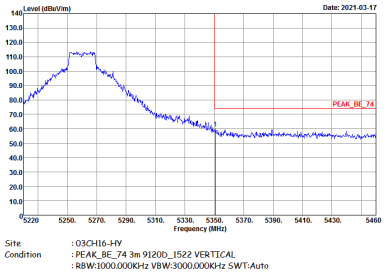
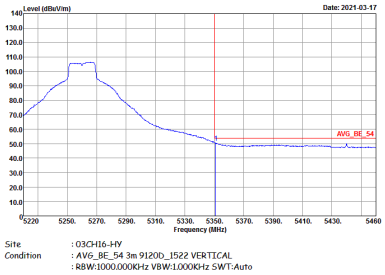
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

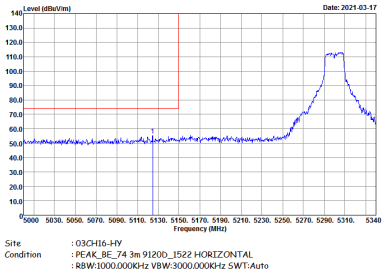
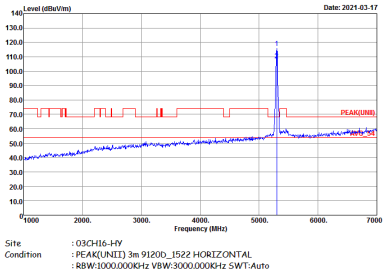
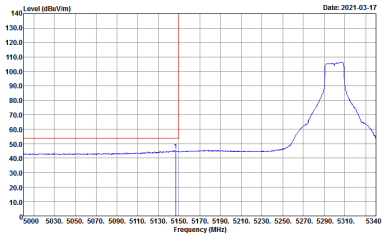
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

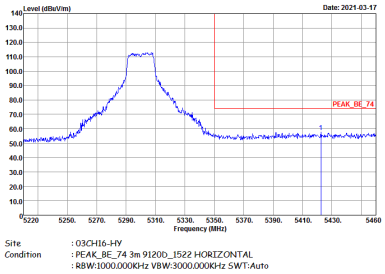
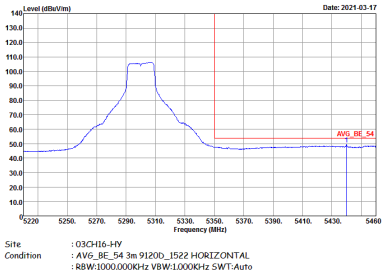
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

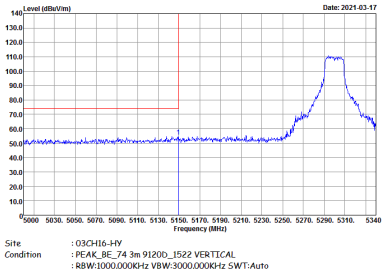
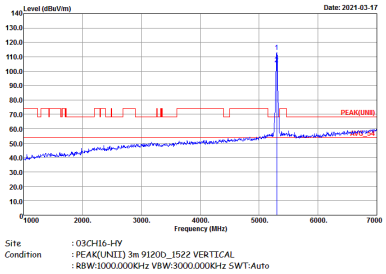
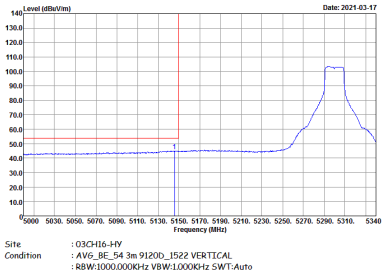
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

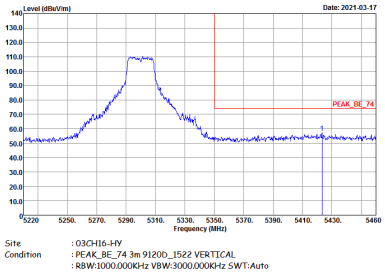
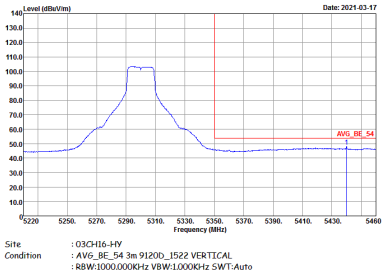
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

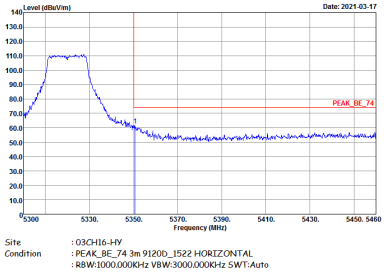
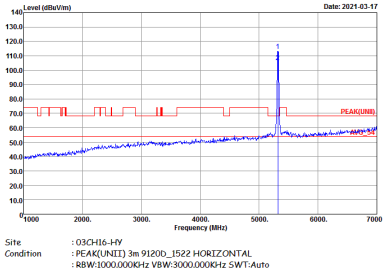
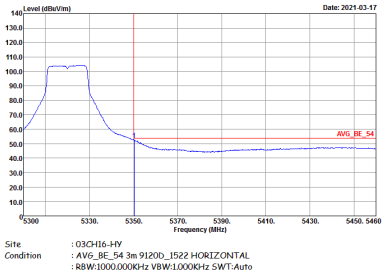
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

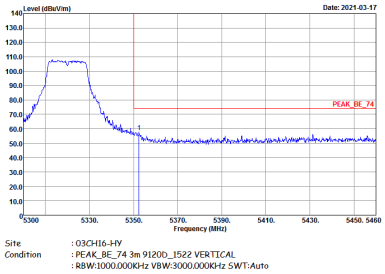
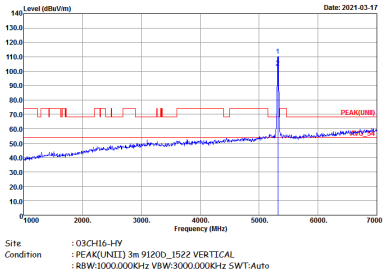
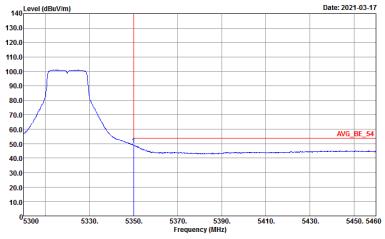
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

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

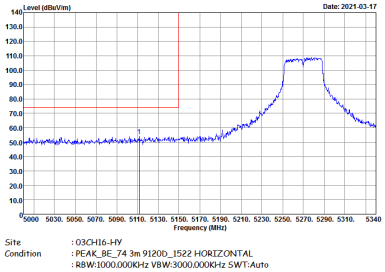
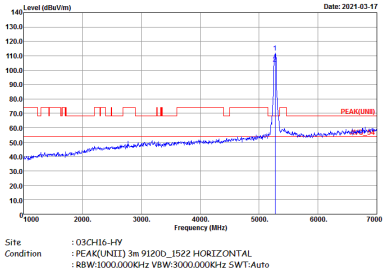
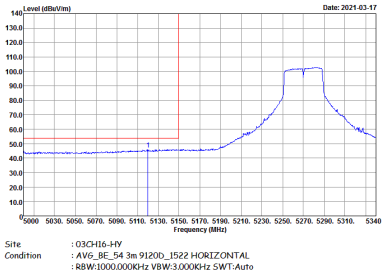
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

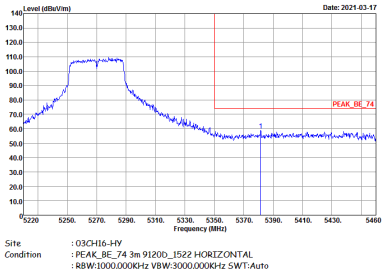
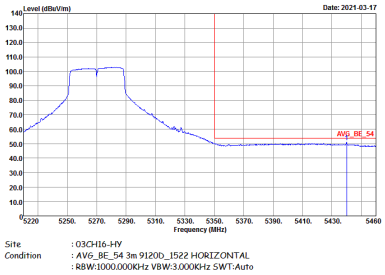
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

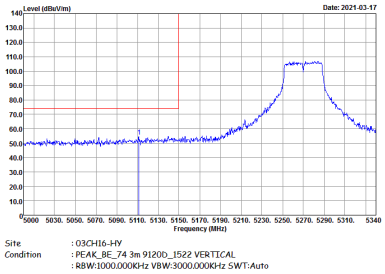
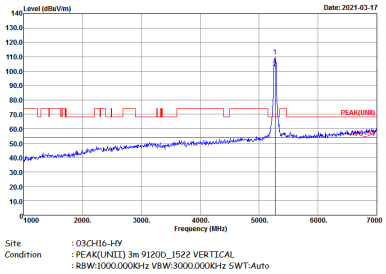
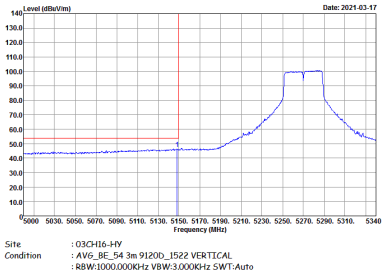
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

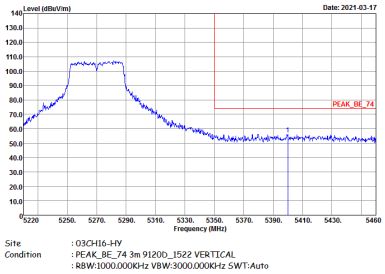
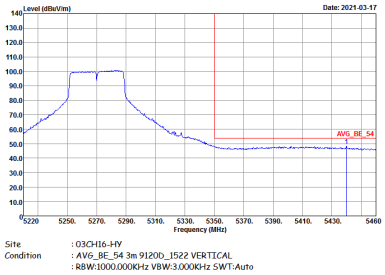
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

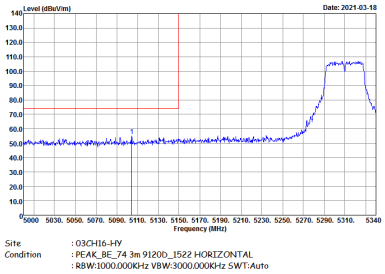
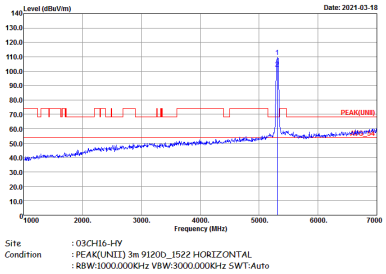
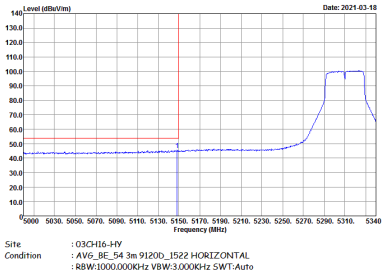
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

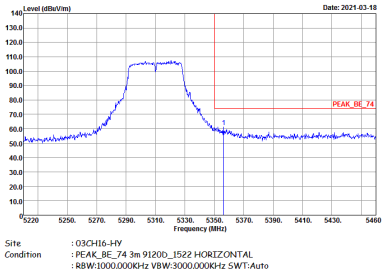
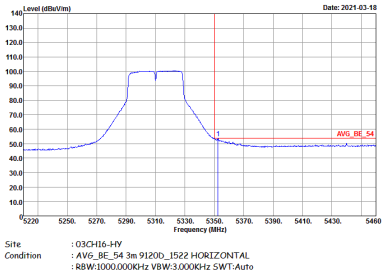
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

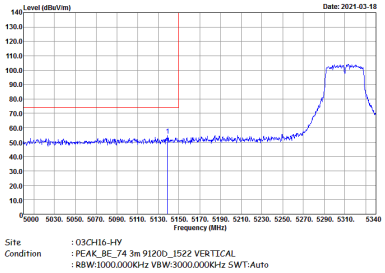
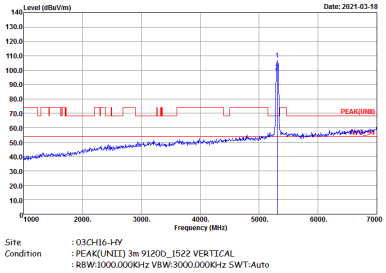
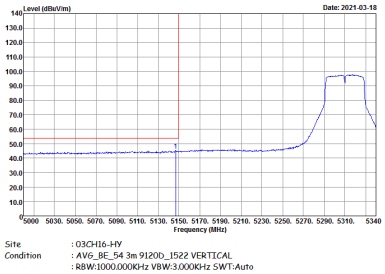
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

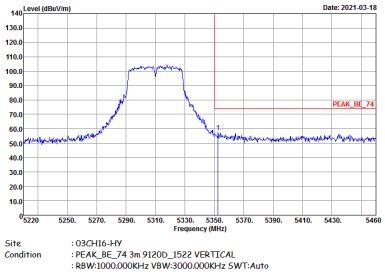
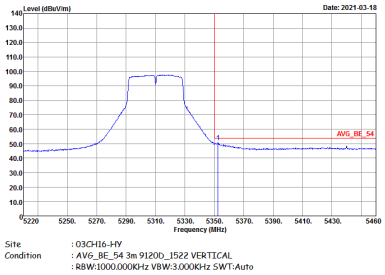
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
2	Vertical	Vertical
Peak		
Avg.		Left blank

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

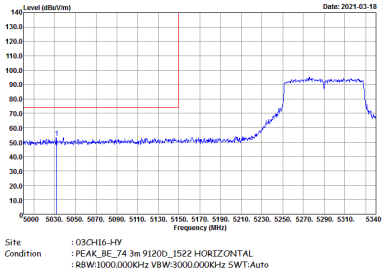
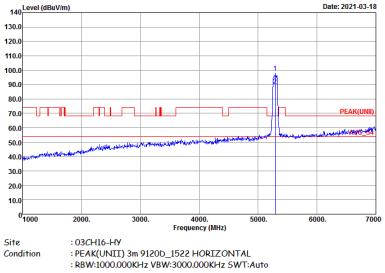
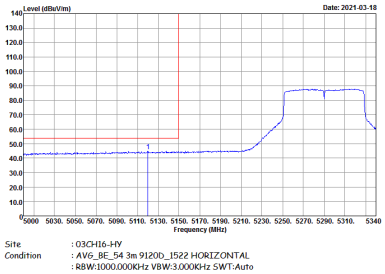
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

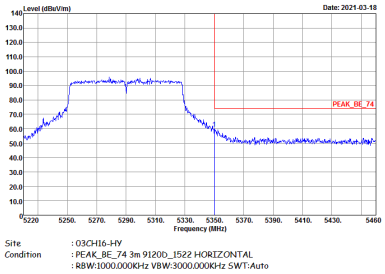
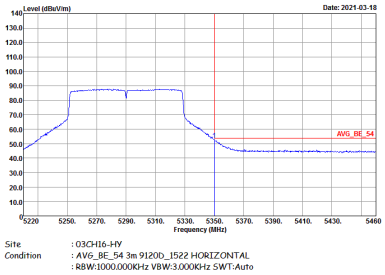
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

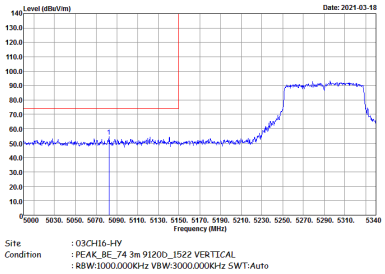
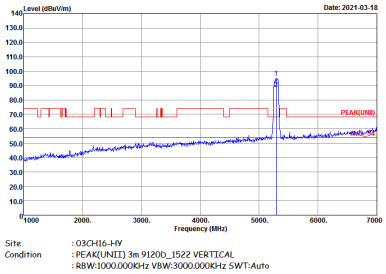
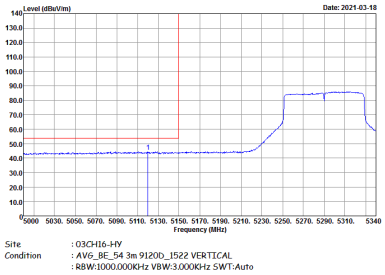
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

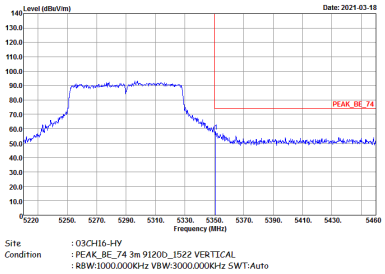
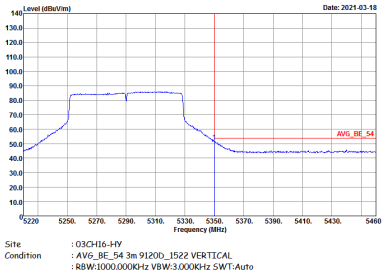
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

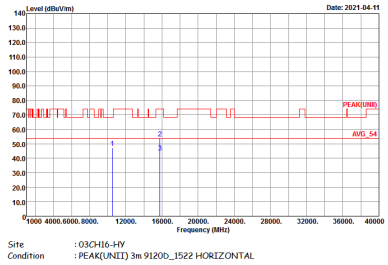
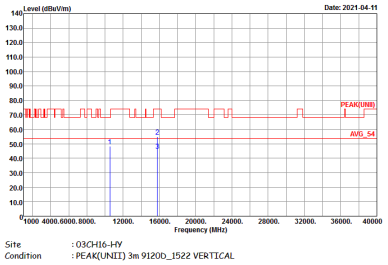
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

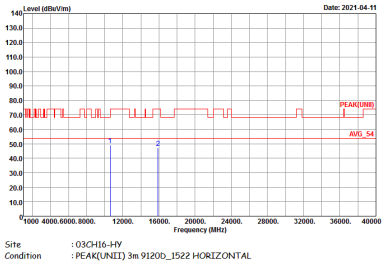
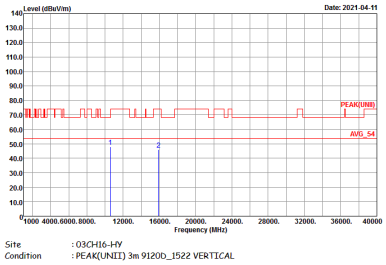
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

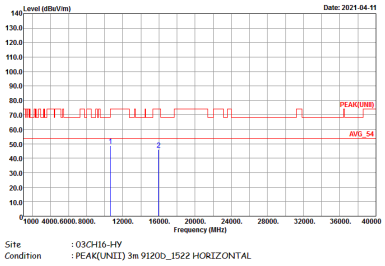
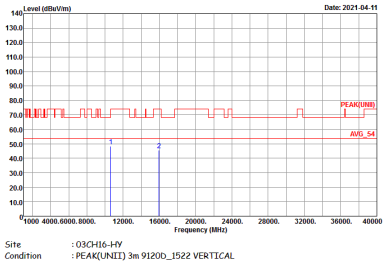
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

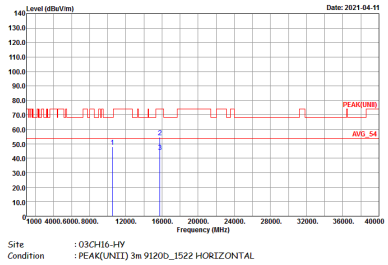
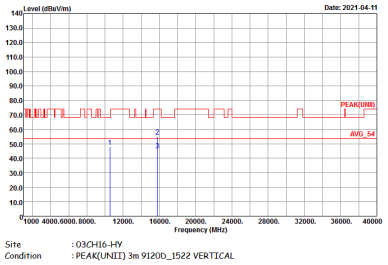
WIFI 802.11a (Harmonic @ 3m)

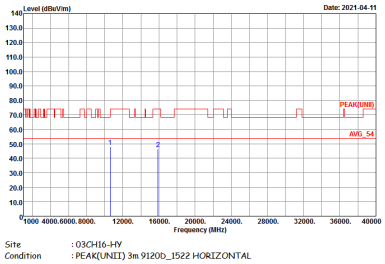
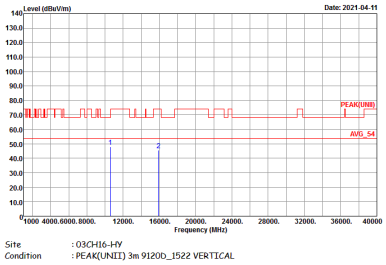
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.		

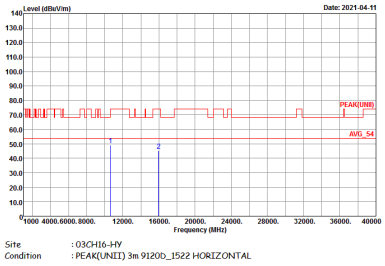
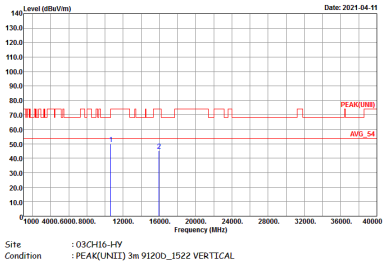
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

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

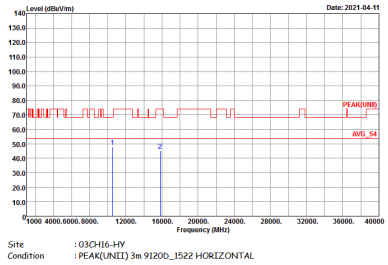
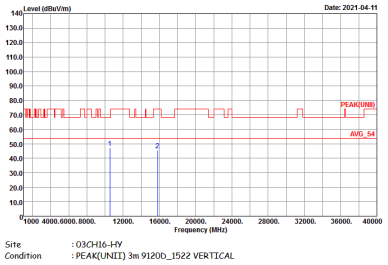
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

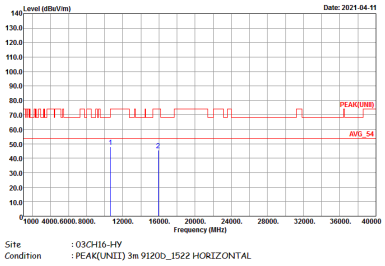
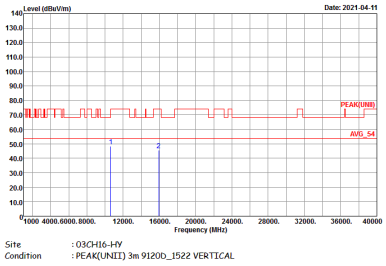
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.		

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

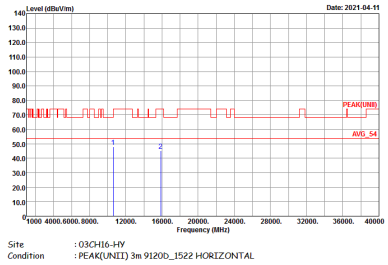
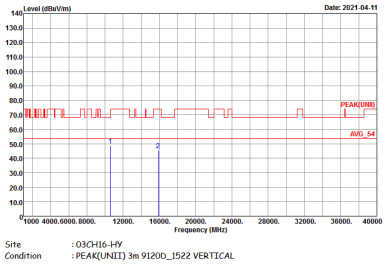
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.		

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

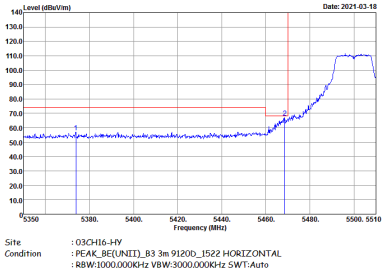
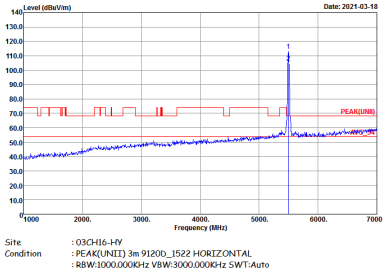
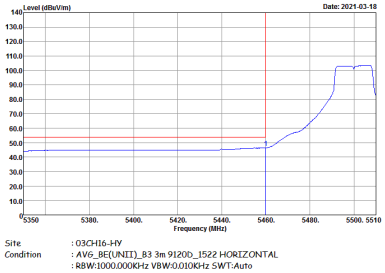
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
2	Horizontal	Vertical
Peak Avg.		

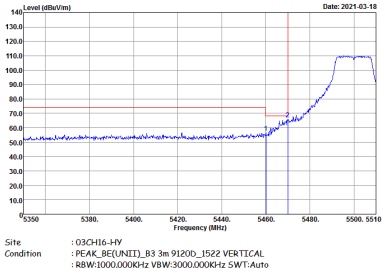
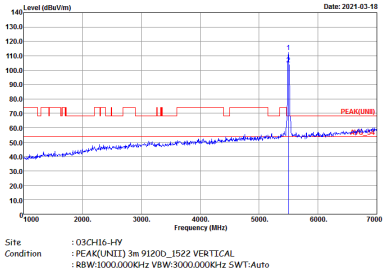
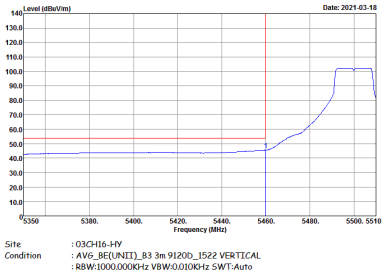
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
2	Horizontal	Vertical
Peak Avg.		

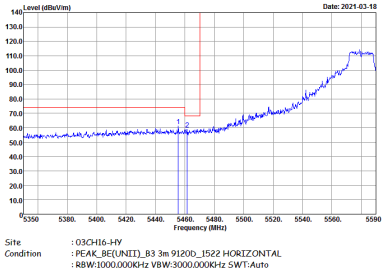
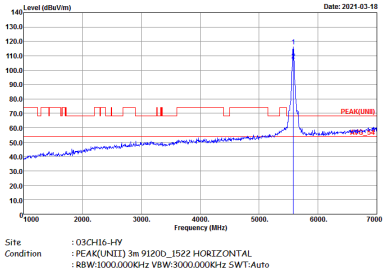
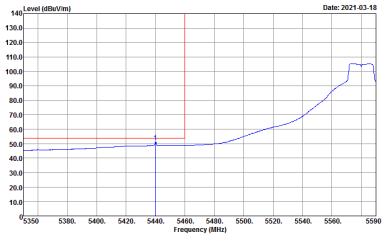
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

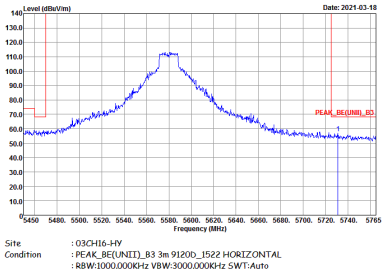
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
2	Horizontal	Vertical
Peak Avg.		

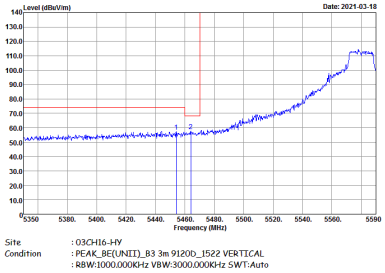
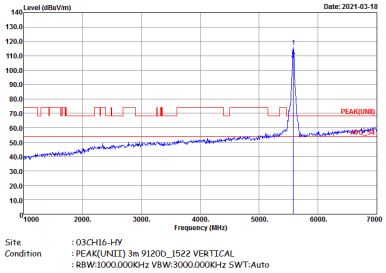
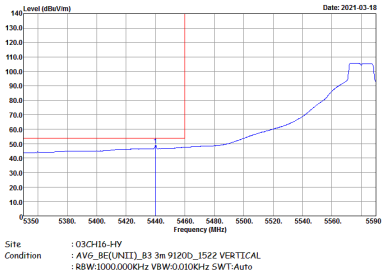
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

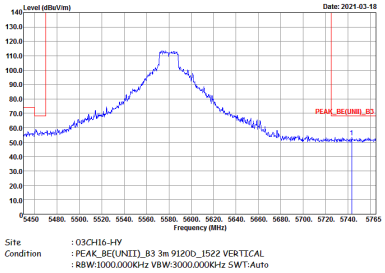
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

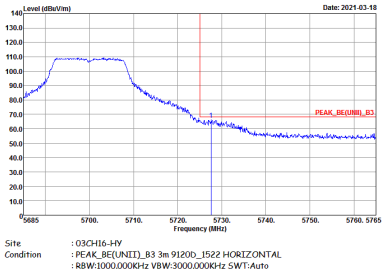
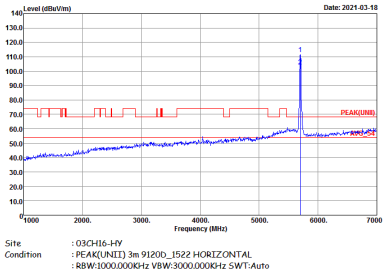
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

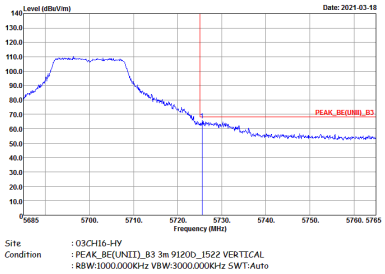
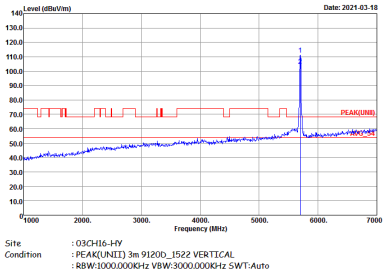
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

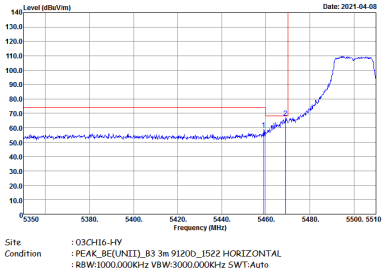
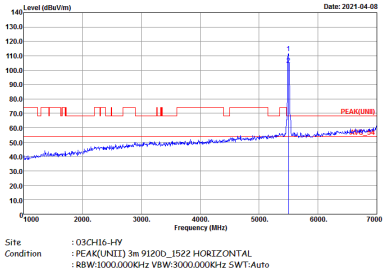
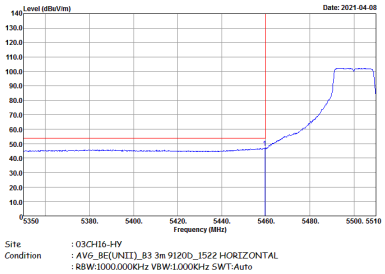
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

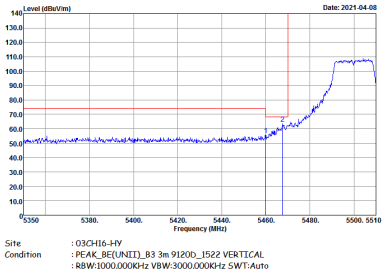
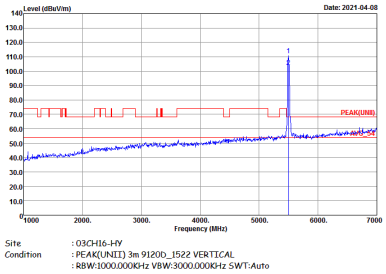
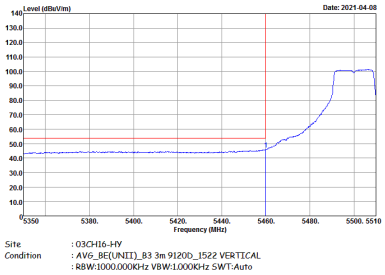
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

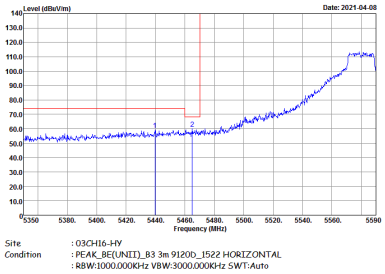
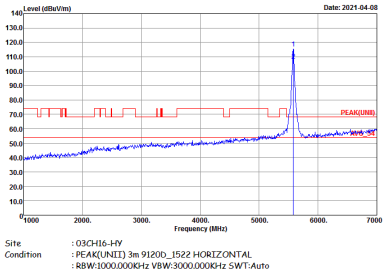
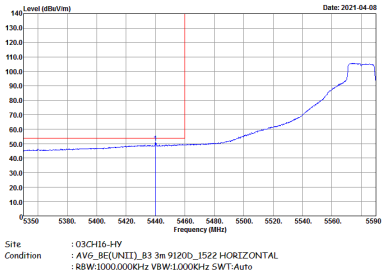
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

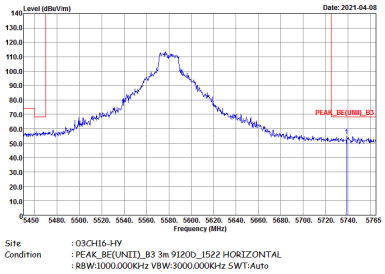
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak		

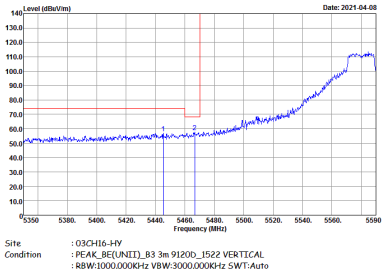
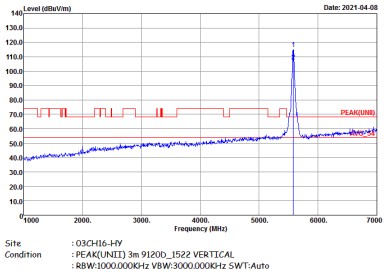
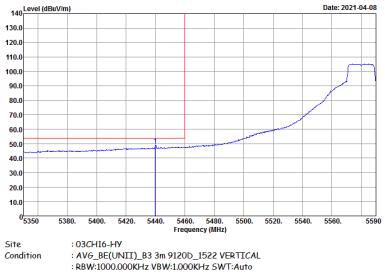
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

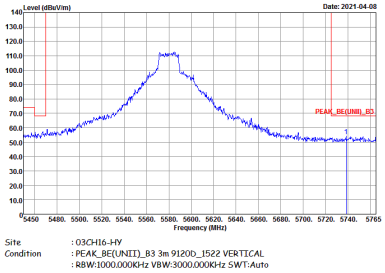
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

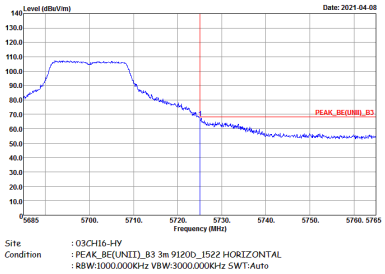
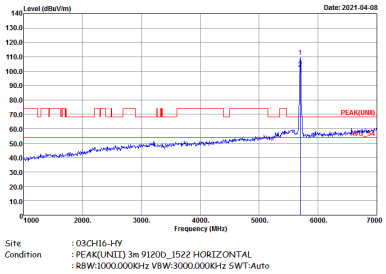
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

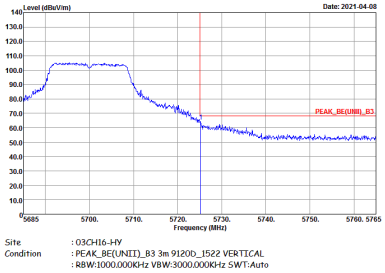
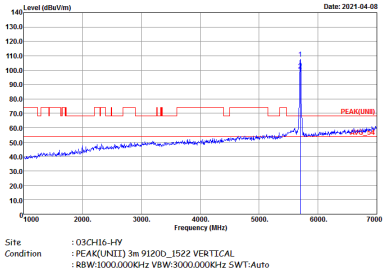
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

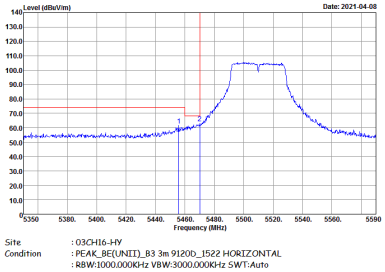
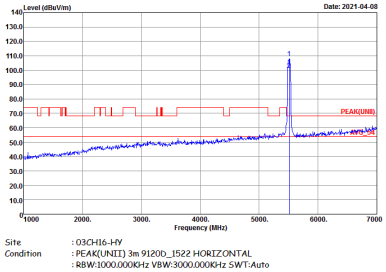
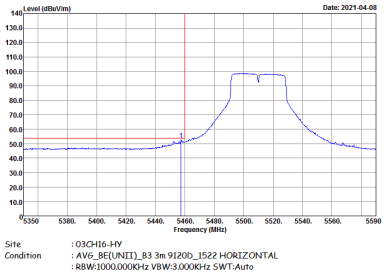
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

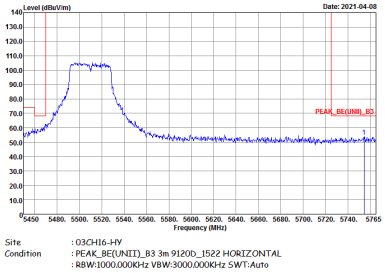
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Vertical	Fundamental
Peak		Left blank

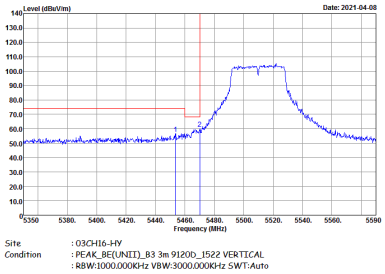
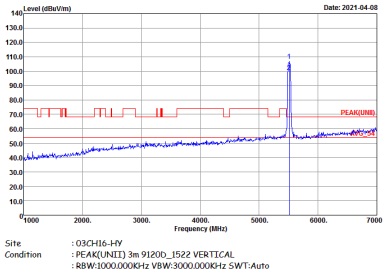
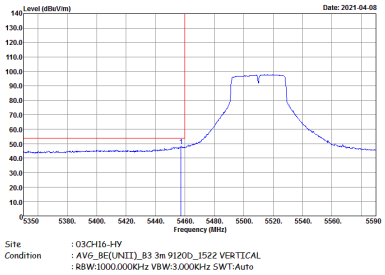
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

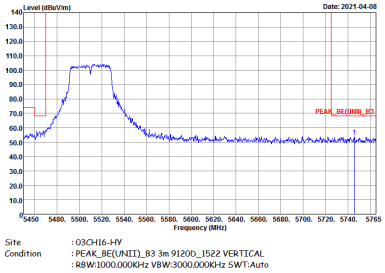
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Vertical	Fundamental
Peak.		

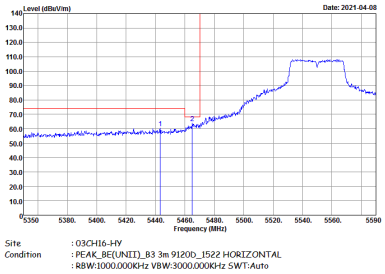
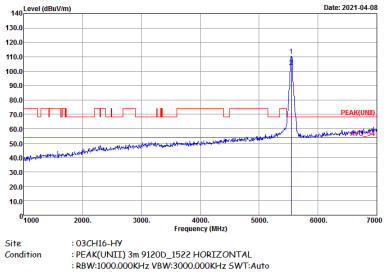
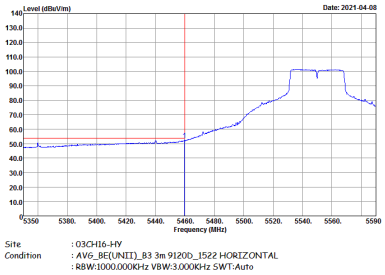
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

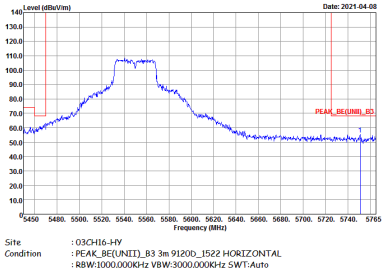
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

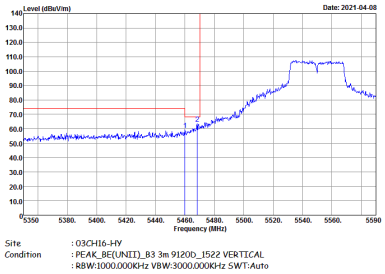
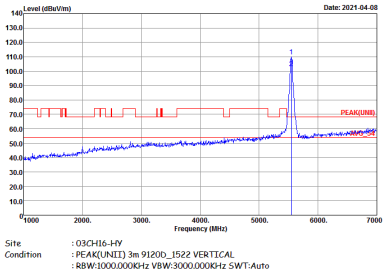
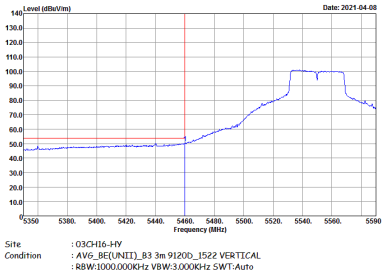
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

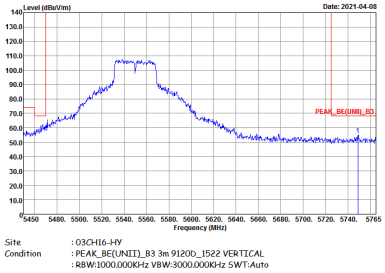
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

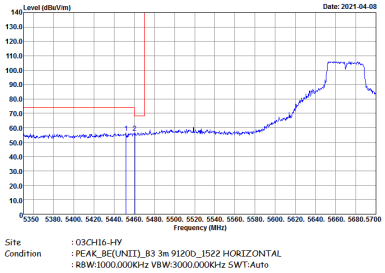
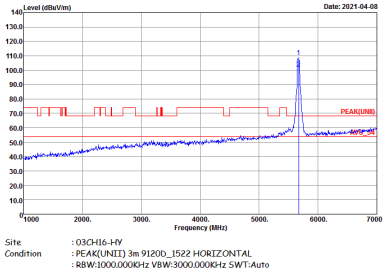
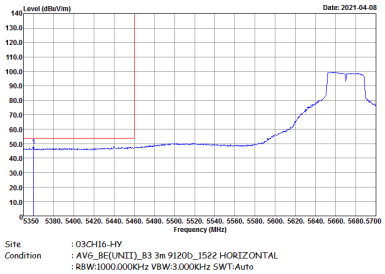
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
2	Vertical	Fundamental
Peak		Left blank

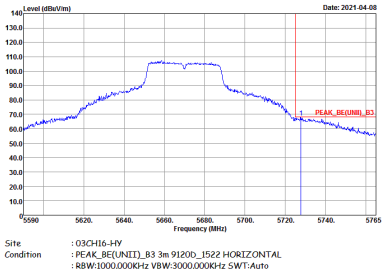
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

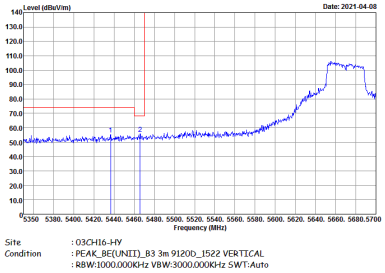
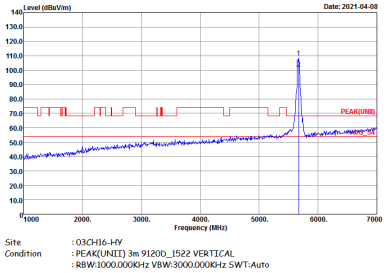
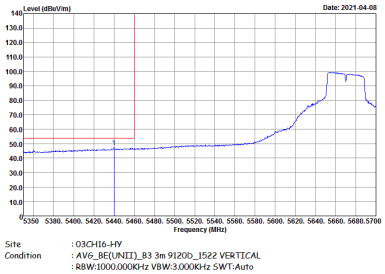
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

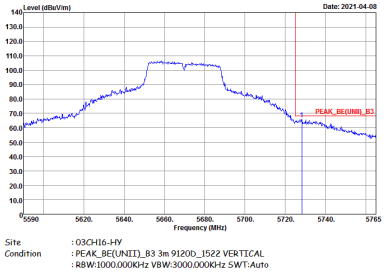
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
2	Vertical	Fundamental
Peak		Left blank

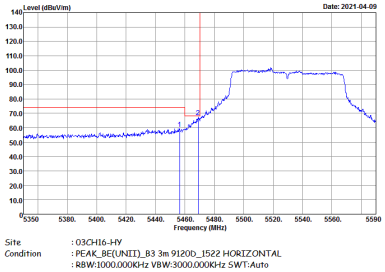
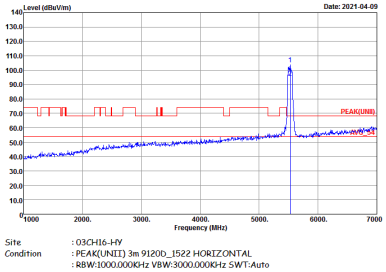
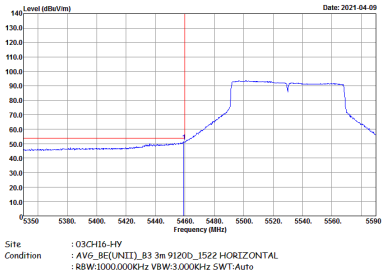
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

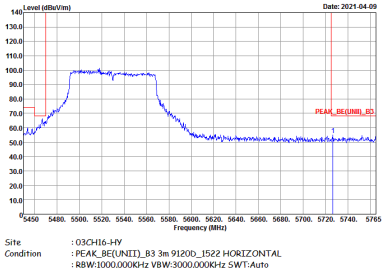
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

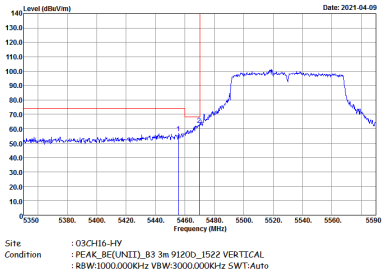
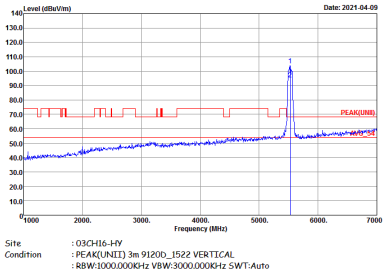
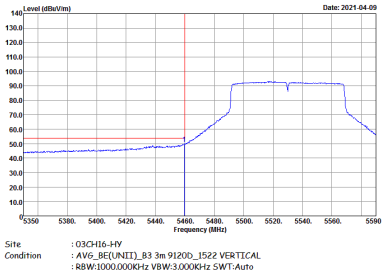
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

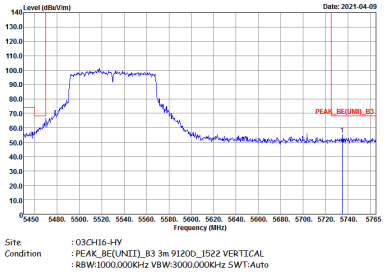
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
2	Vertical	Fundamental
Peak		Left blank

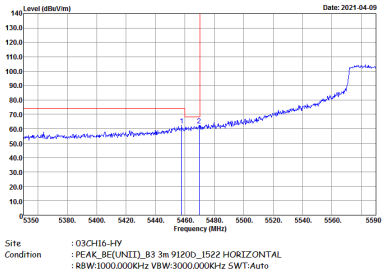
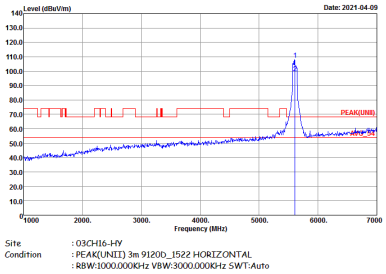
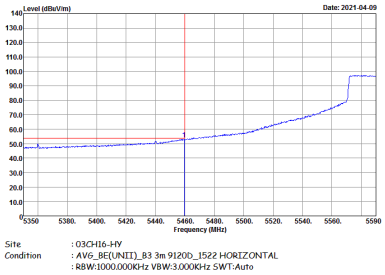
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

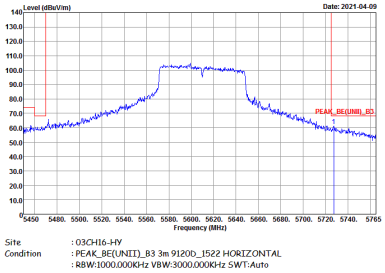
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

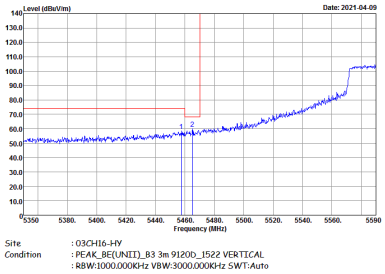
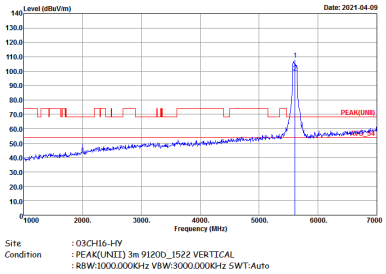
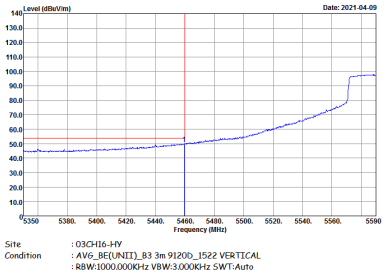
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

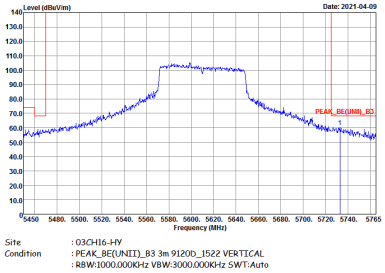
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

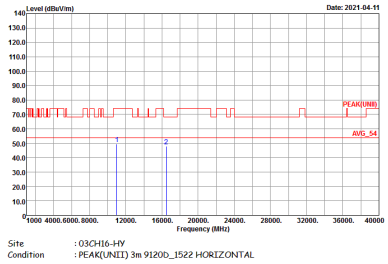
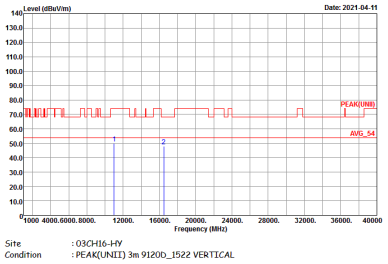
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

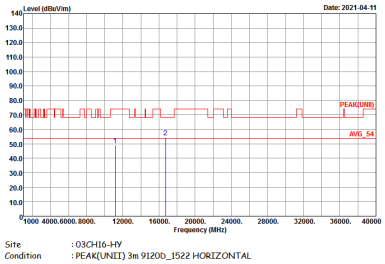
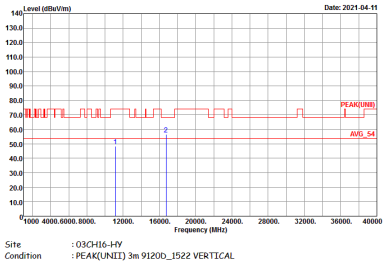
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

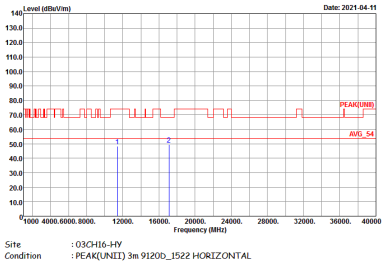
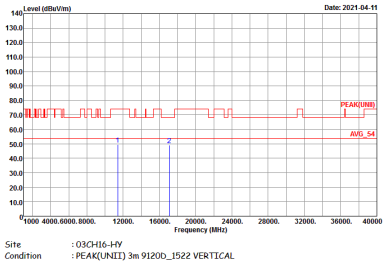
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

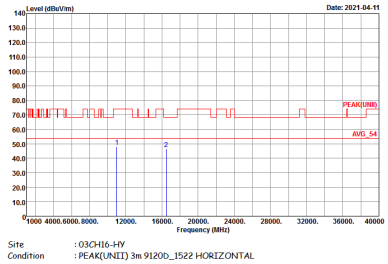
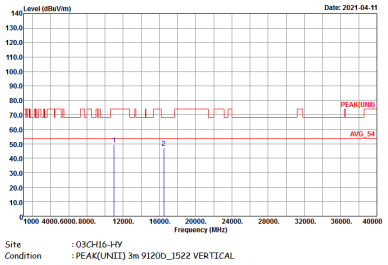
WIFI 802.11a (Harmonic @ 3m)

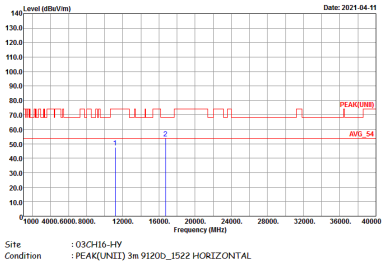
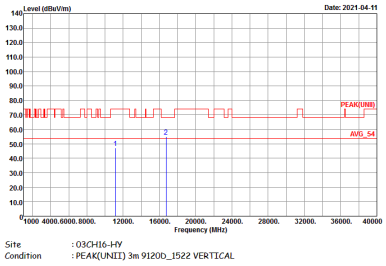
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

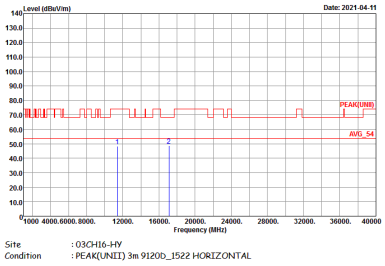
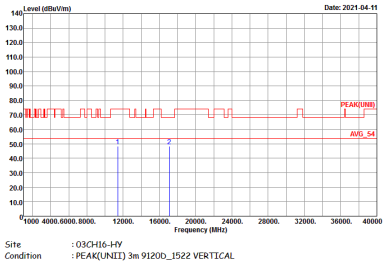
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

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

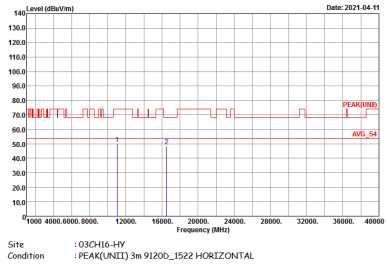
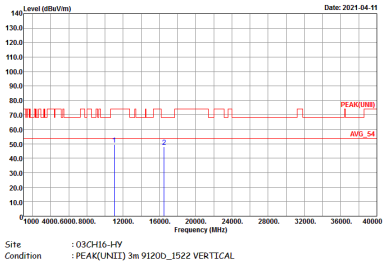
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

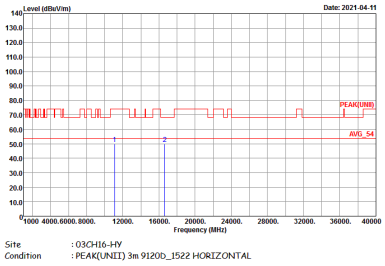
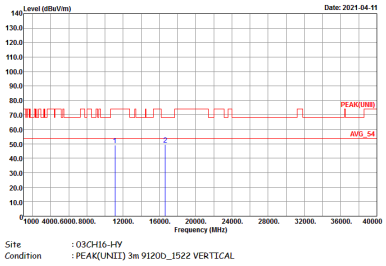
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

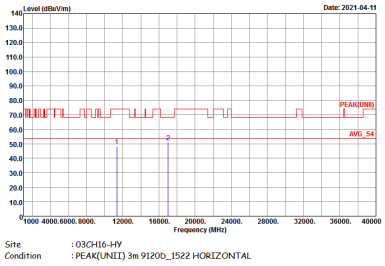
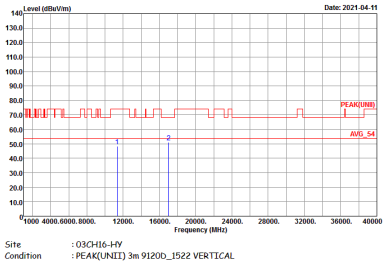
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

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

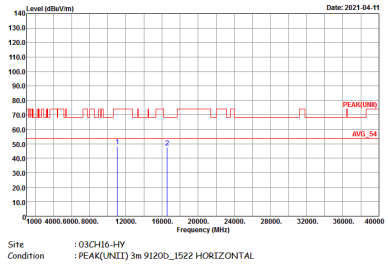
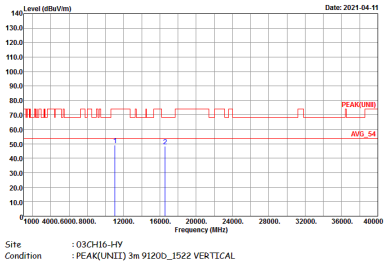
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

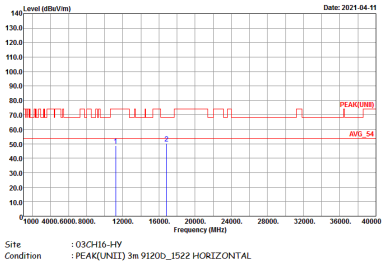
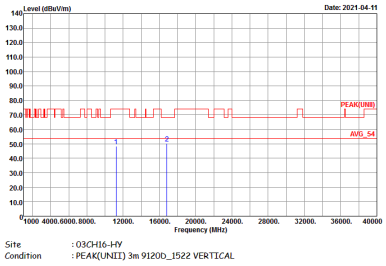
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
2	Horizontal	Vertical
Peak Avg.		

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

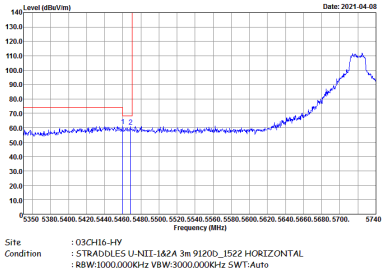
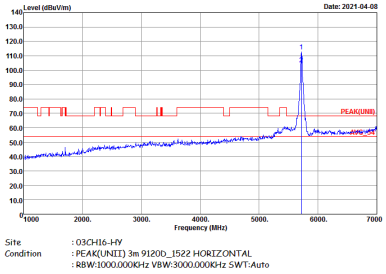
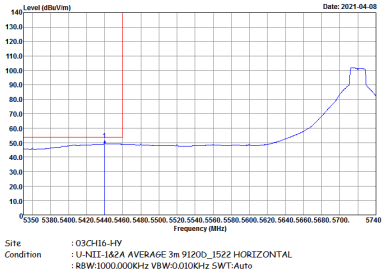
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
2	Horizontal	Vertical
Peak Avg.		

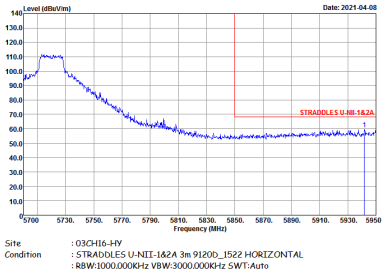
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

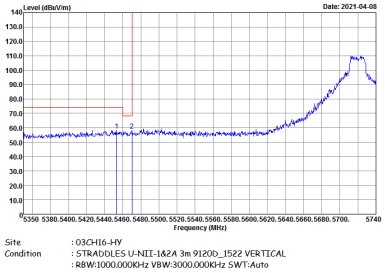
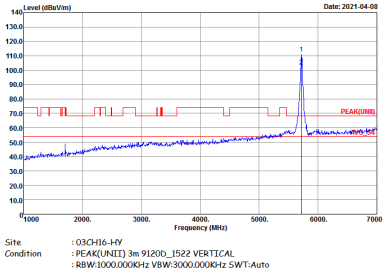
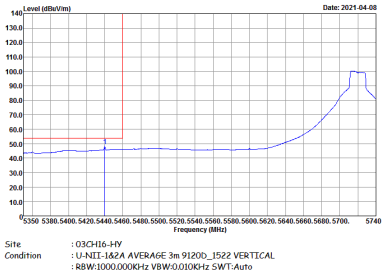
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
2	Horizontal	Vertical
Peak Avg.		

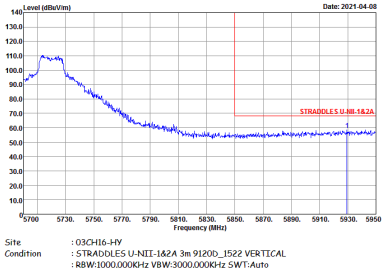
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

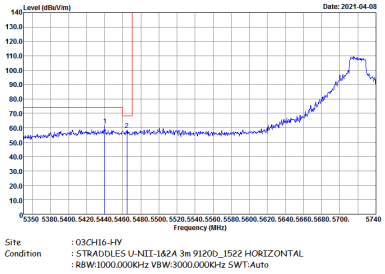
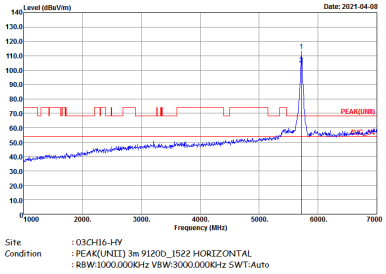
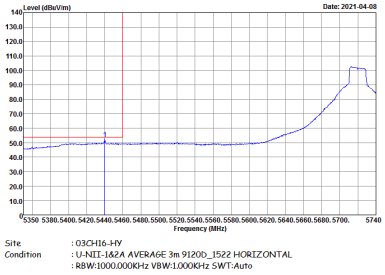
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

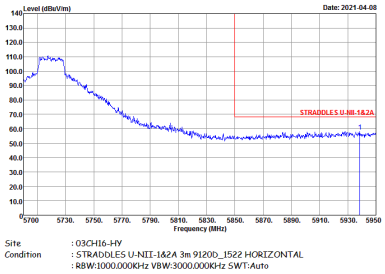
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
2	Horizontal	Fundamental
Peak		Left blank

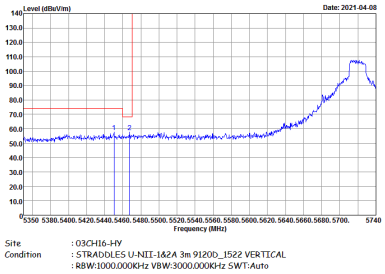
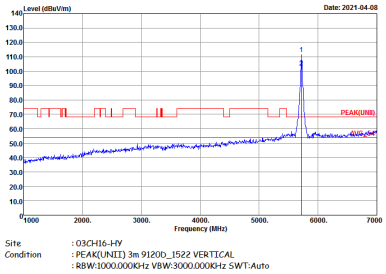
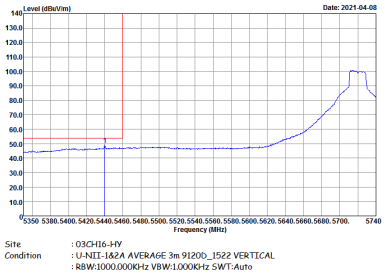
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

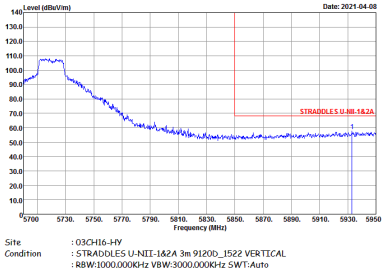
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

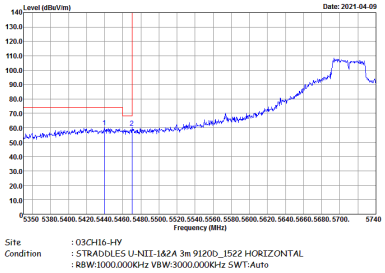
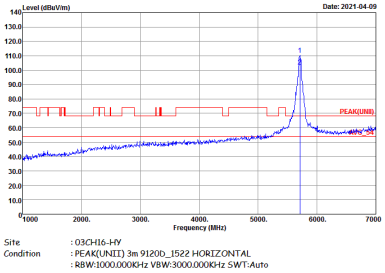
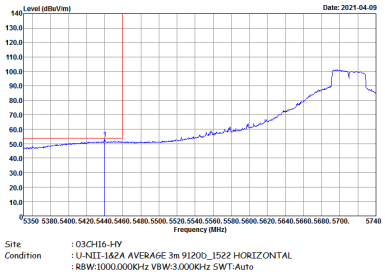
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

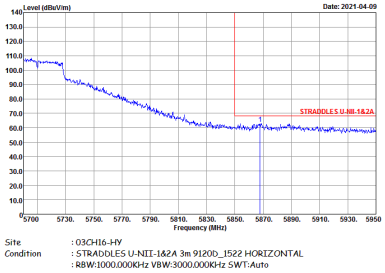
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

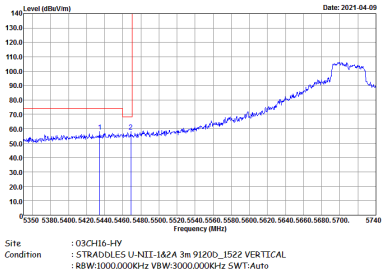
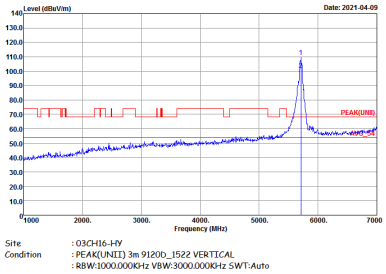
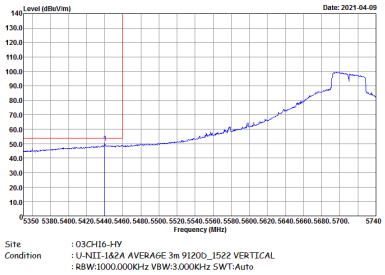
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

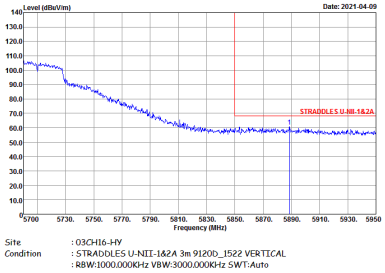
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

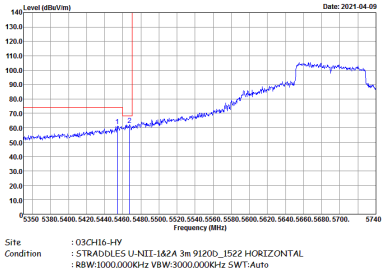
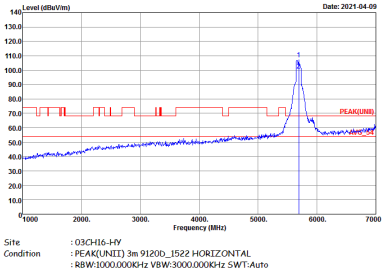
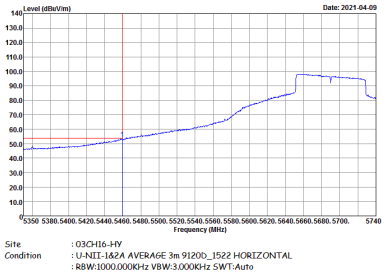
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

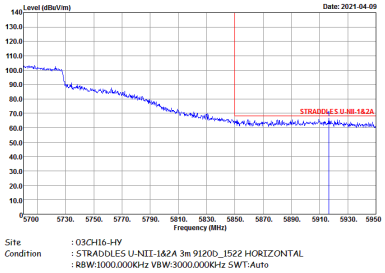
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

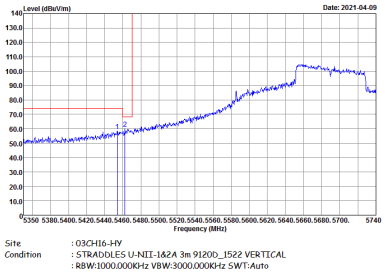
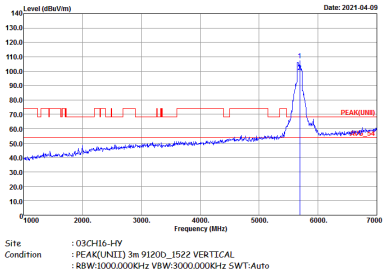
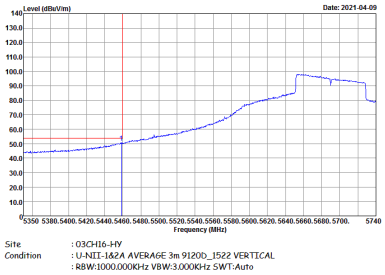
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

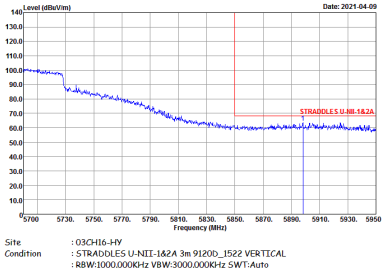
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

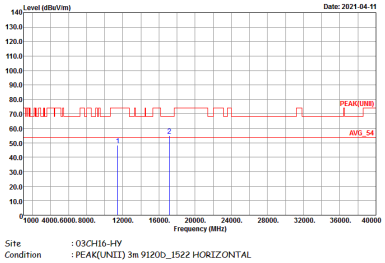
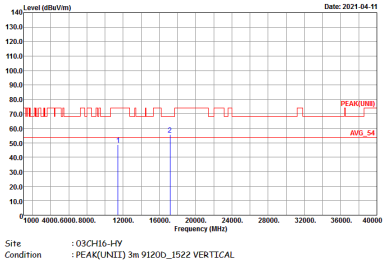
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80CH138 5690MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : STRADDLES U-NII-1&2A 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

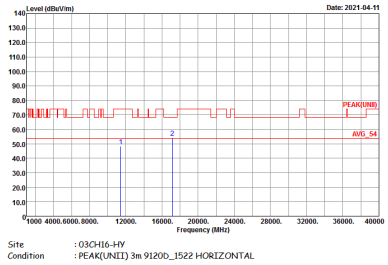
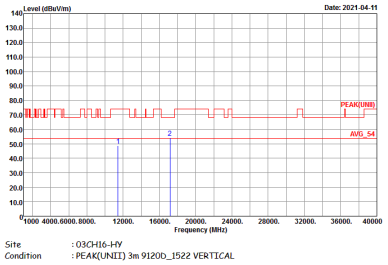
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - R	
2	Vertical	Fundamental
Peak		Left blank

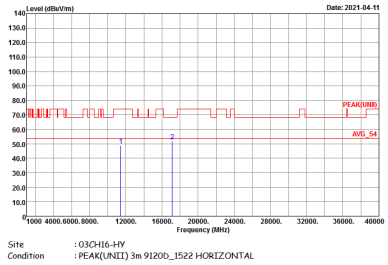
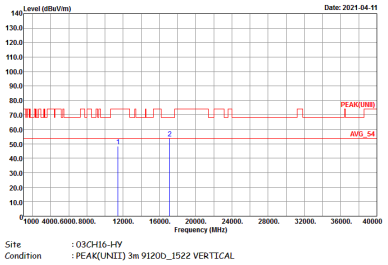
Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

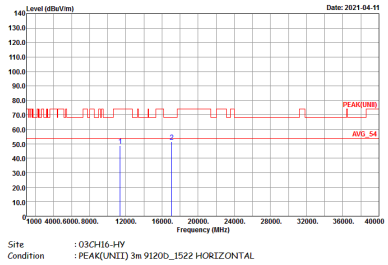
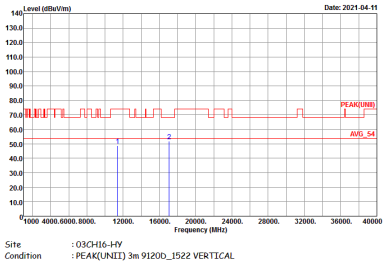
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
2	Horizontal	Vertical
Peak Avg.		

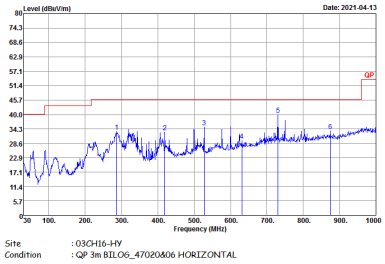
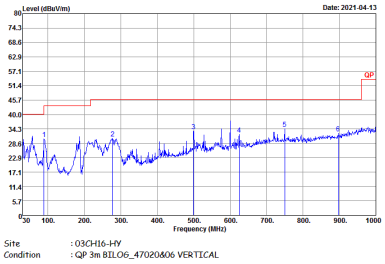
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Horizontal	Vertical
Peak Avg.		

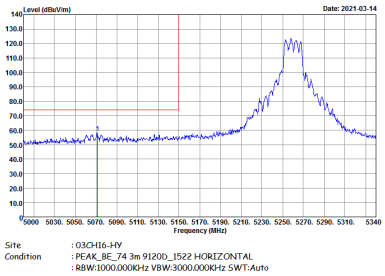
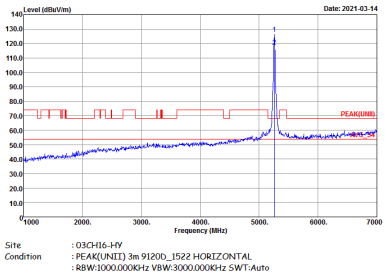
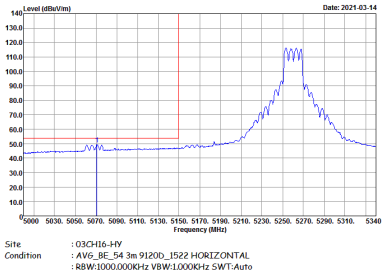
Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF)

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

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