FCC RADIO TEST REPORT

FCC ID	:	**2AIWVN302**
Equipment	:	**Nanit Pro Baby Monitor**
Brand Name	:	**Nanit**
Model Name	:	**N302**
Applicant	:	**Udisense Inc. DBA: Nanit 244 Fifth Avenue Suite #2702, New York, NY, United States 10001**
Manufacturer	:	**Udisense Inc. DBA: Nanit 244 Fifth Avenue Suite #2702, New York, NY, United States 10001**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 18, 2022 and testing was performed from Mar. 03, 2022 to Mar. 30, 2022. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FR221836D	01	Initial issue of report	May 03, 2022

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	0.12 dB under the limit at 5412.400 MHz
3.5	15.207	AC Conducted Emission	Pass	16.35 dB under the limit at 0.614 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
   It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Feature	
Antenna Type	WLAN **<Ant. 1>:** Dipole Antenna **<Ant. 2>:** Dipole Antenna Bluetooth: Dipole Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1:4.5 Ant. 2:1.5
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1:4.5 Ant. 2:1.5
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1:3.9 Ant. 2:1.9

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

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.**
	CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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.**
	TH05-HY, 03CH20-HY

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 declared by 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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane with Notebook for Ant. 1 and MIMO <Ant. 1+2>; Z plane with Notebook for Ant. 2 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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

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 with "*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80.

2.2 Test Mode

The CDD mode is chosen as worst case configuration for all test cases due to higher power than SISO mode.

The 802.11ac mode has no higher power and PSD than 802.11n mode, thus the 802.11n mode is chosen as main test configuration, and the 802.11ac mode is verified the power.

The final test modes consider the modulation and the worst data rates as shown in the table below.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps

MIMO Mode

Modulation	Data Rate
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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Multi Stand + Adapter (US)

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

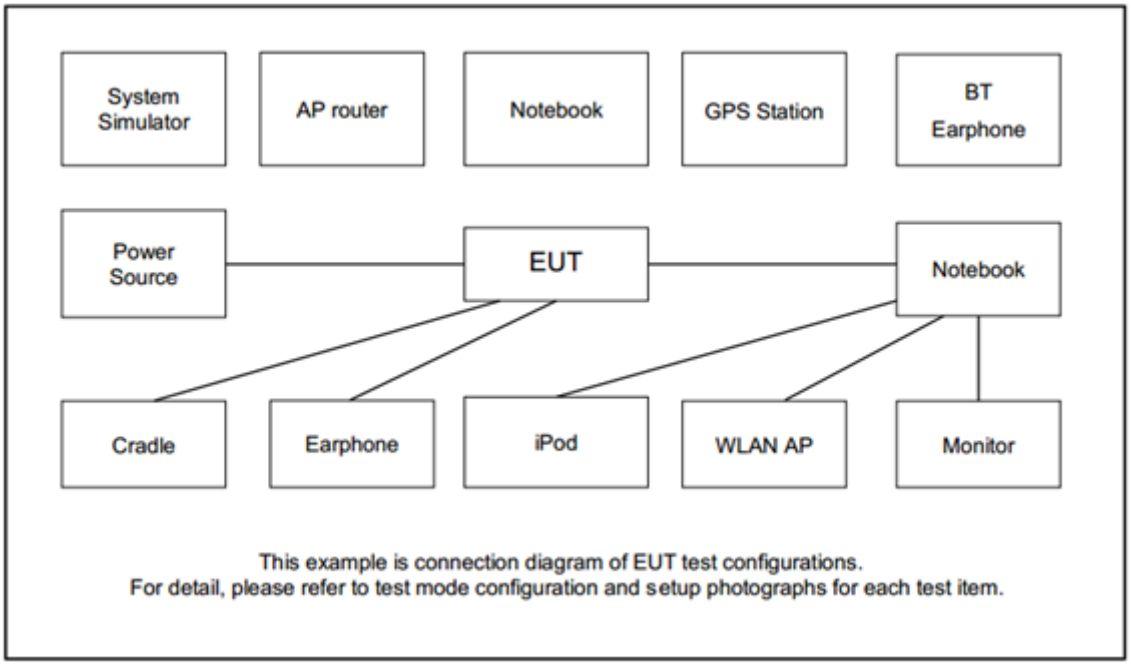
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	Latitude5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “putty 0.7” 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.

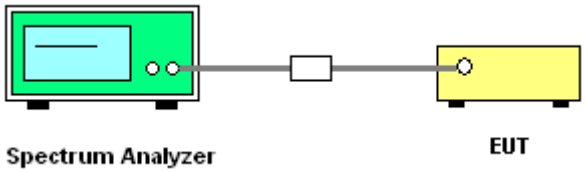
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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.

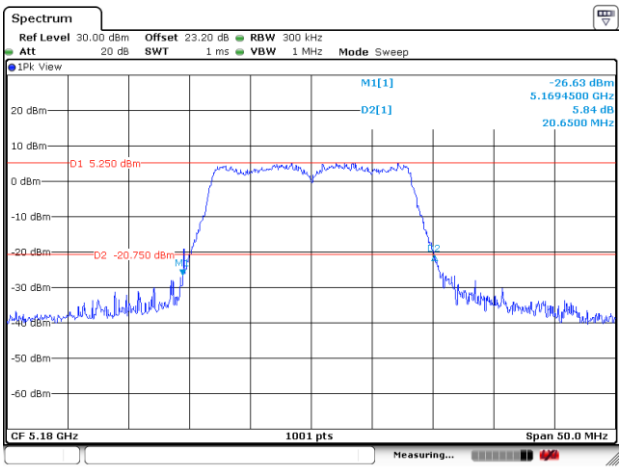
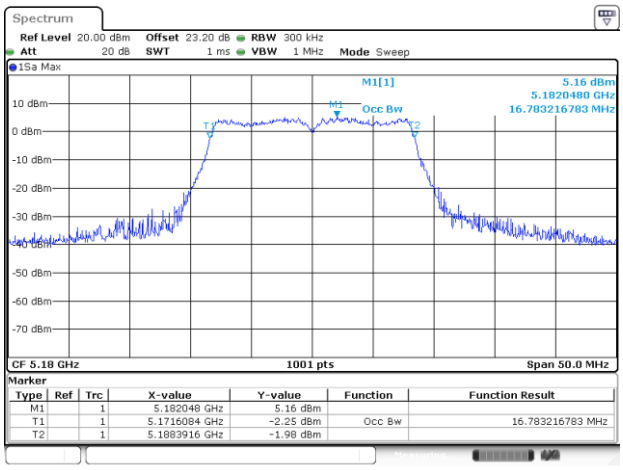
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

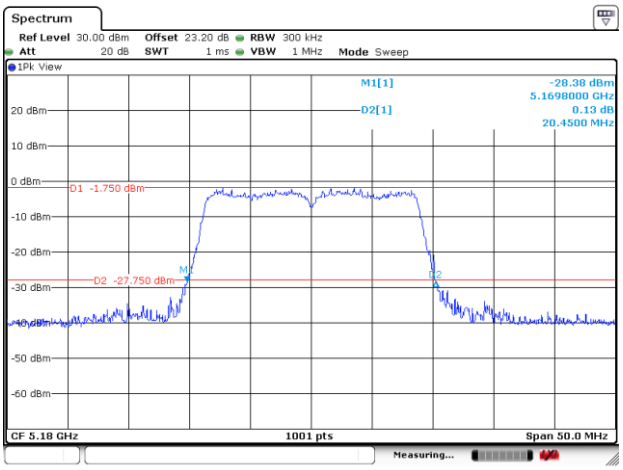
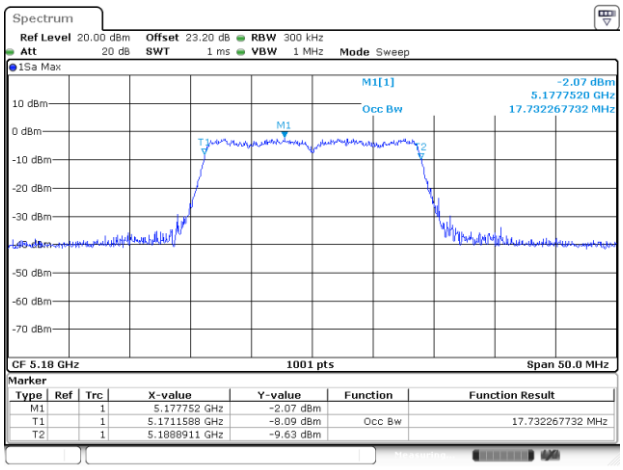
Please refer to Appendix A.

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

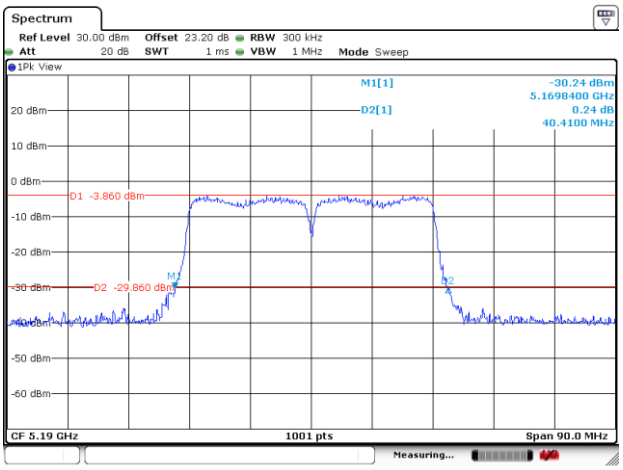
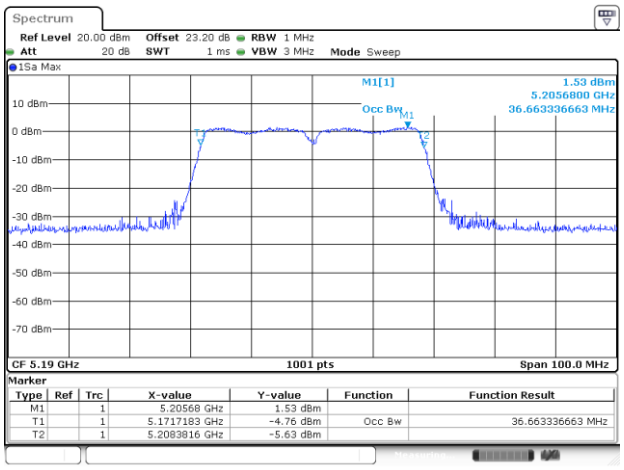
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

26dB Bandwidth	99% Occupied Bandwidth
	

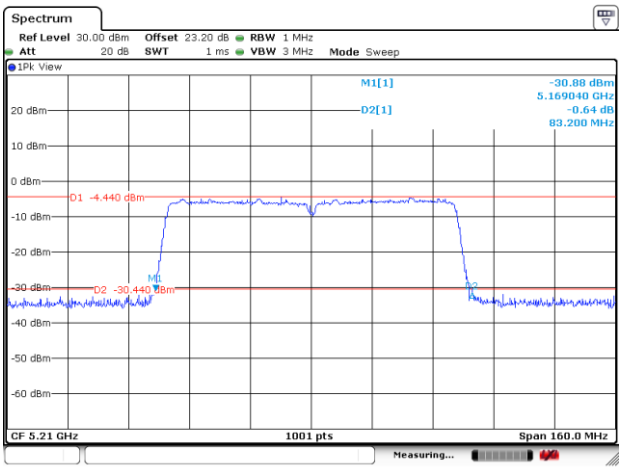
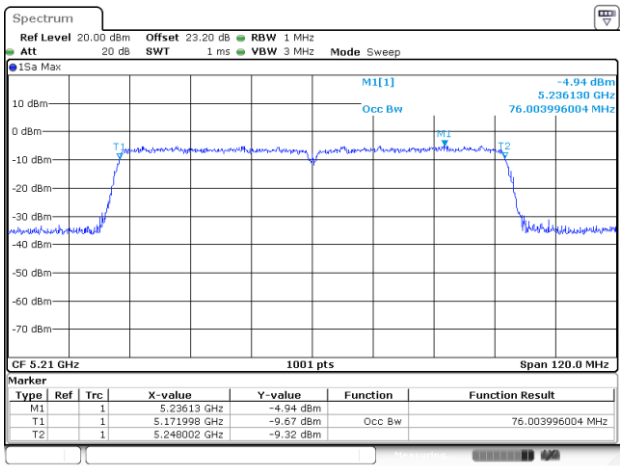
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT40>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	

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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

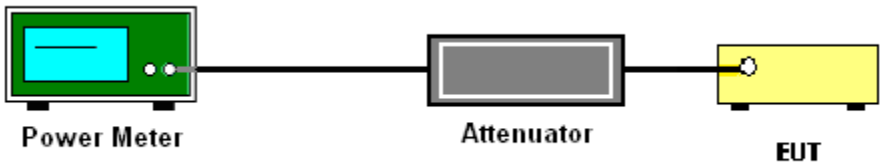
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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 5.15–5.25 GHz bands:

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

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

Please refer to the measuring equipment list in 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):

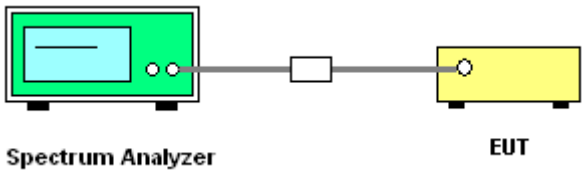
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which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

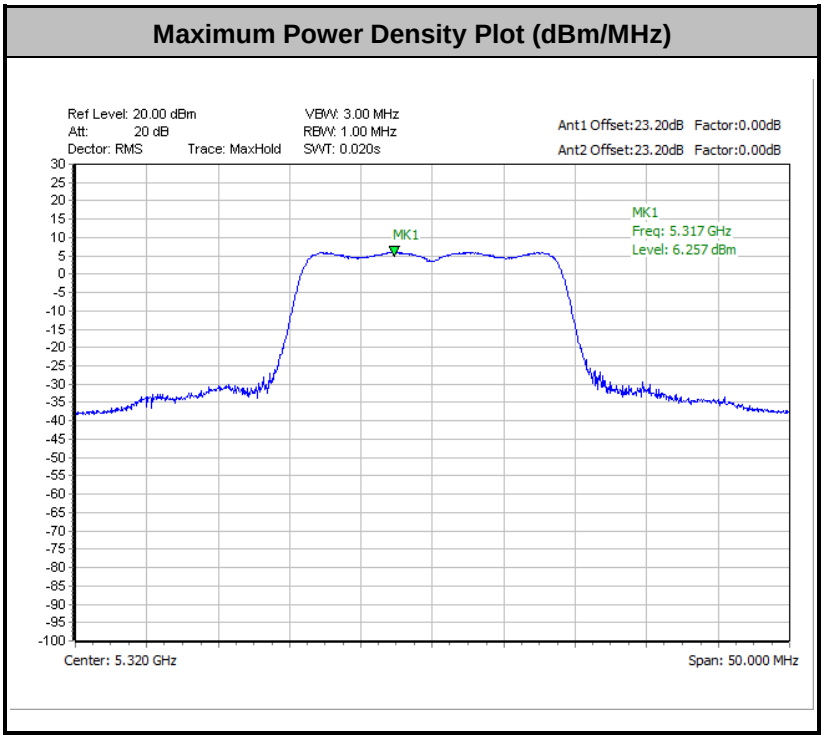


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

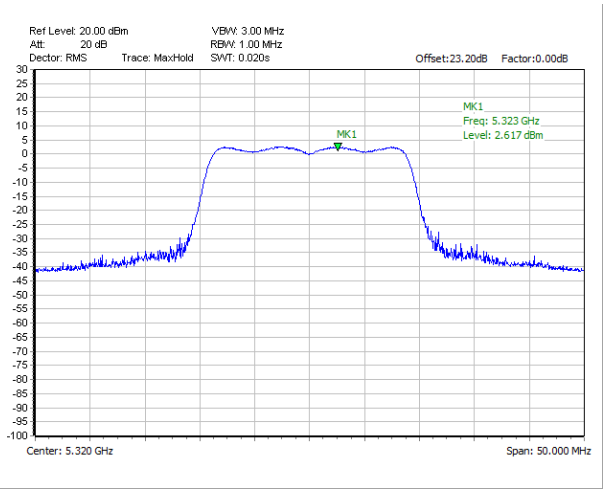
<802.11n HT20>

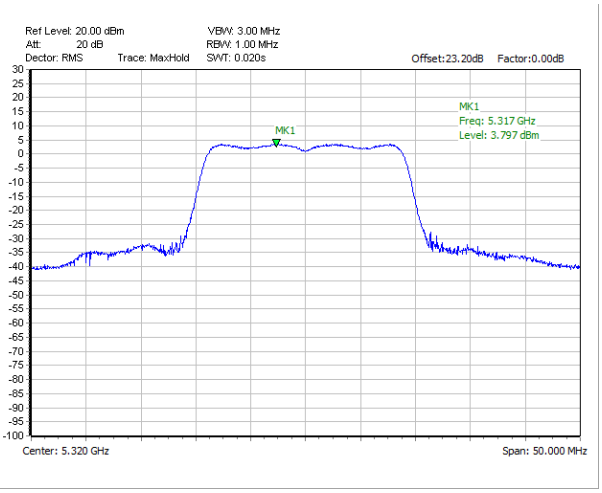
Maximum Power Density Plot (dBm/MHz)



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)





3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

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 falls 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

Please refer to the measuring equipment list in 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

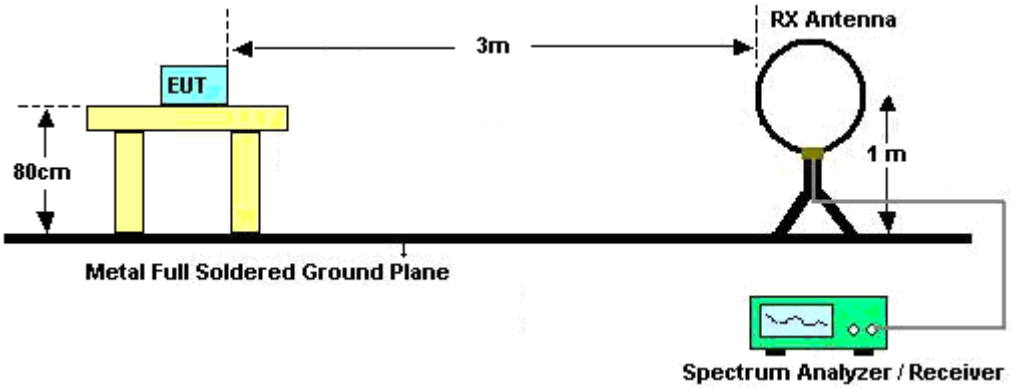
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

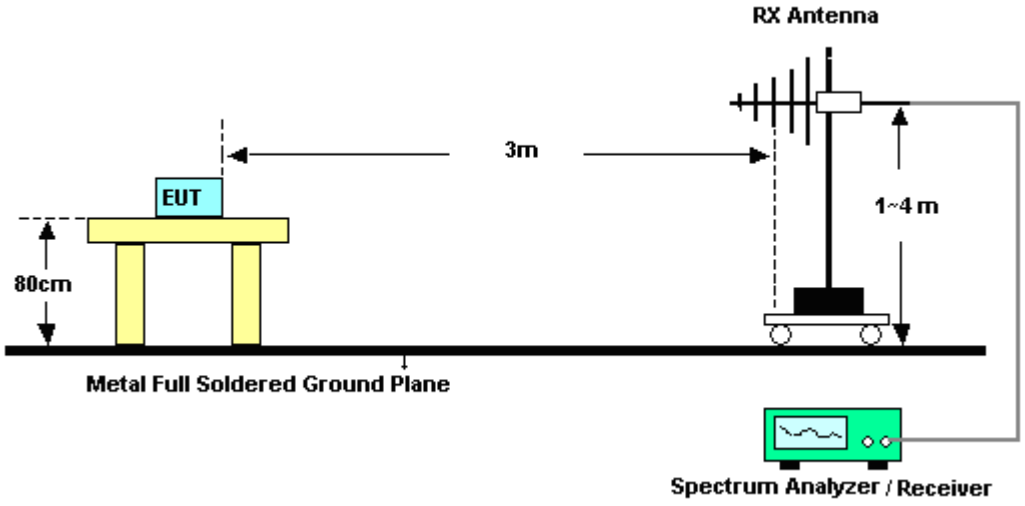
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

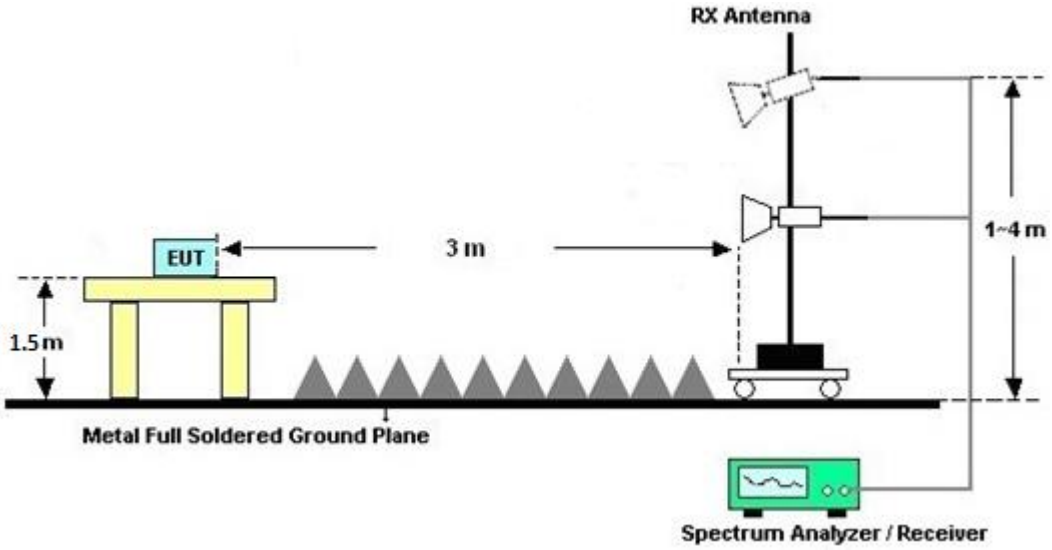
For radiated emissions below 30MHz



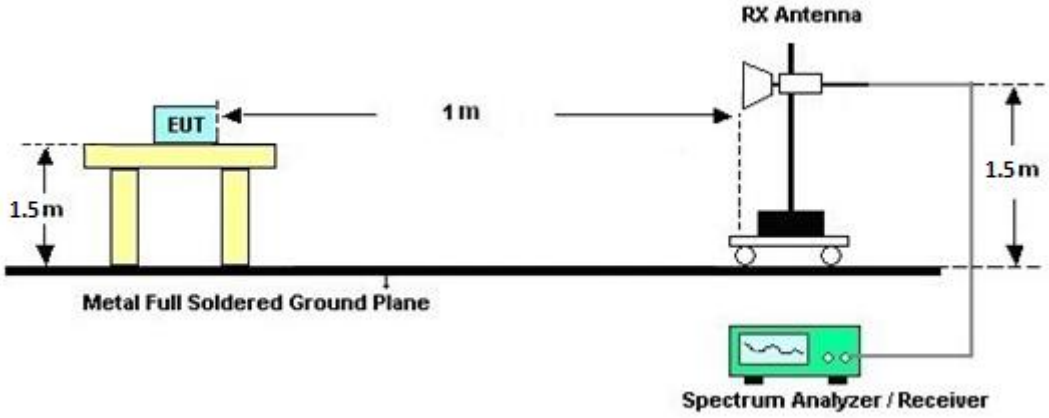
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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.

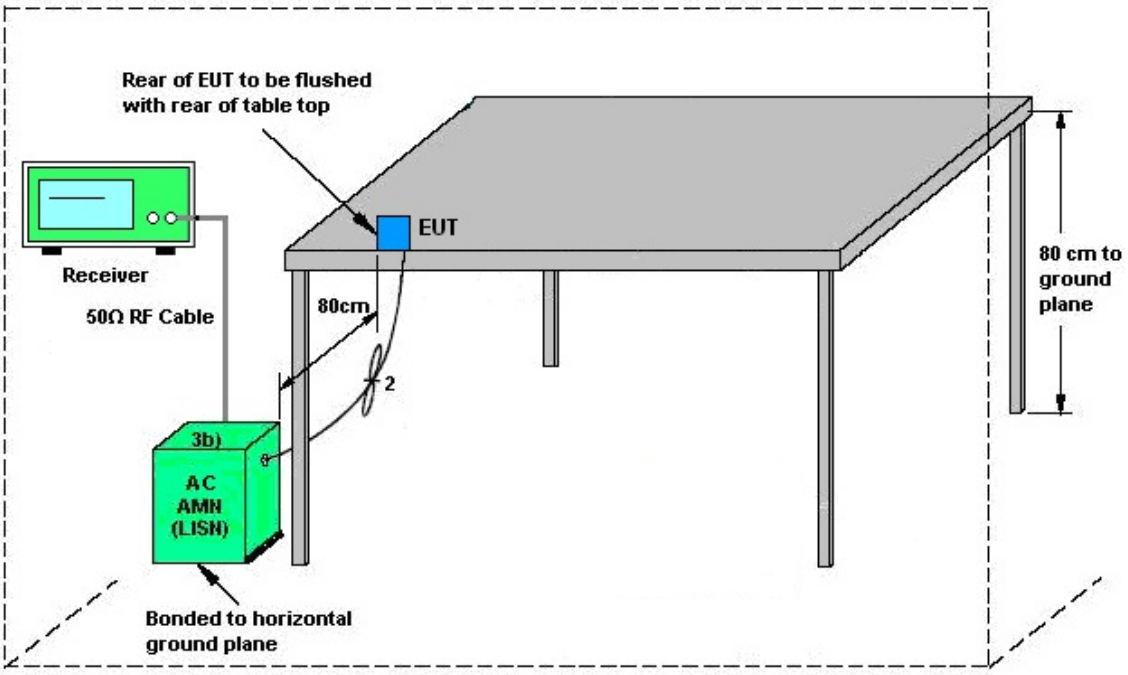
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power measurements on IEEE 802.11 devices,

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

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

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

where

Each antenna is driven by no more than one spatial stream;
N_{SS} = the number of independent spatial streams of data;
N_{ANT} = the total number of antennas
$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

For example: If a device has two antenna, G_{ANT1}= 3.6dBi; G_{ANT2}=4.2dBi

Directional gain of power measurement = max(3.6, 4.2) + 0 = 4.2 dBi

Directional gain of PSD measurement = $10 * \log[(10^{3.6/20} + 10^{4.2/20})^2 / 2]$ = 6.92 dBi

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

<CDD Modes>						
	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	4.50	1.50	4.50	6.14	0.00	0.14
Band II	4.50	1.50	4.50	6.14	0.00	0.14
Band III	3.90	1.90	3.90	5.97	0.00	0.00

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

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

Calculation example:
The DG for PSD is derived from formula is
10 x log { { [10^ (4.50 dBi / 20) + 10^ (1.50 dBi / 20)] ^ 2 } / 2 }
= 6.14 dBi

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Mar. 04, 2022~ Mar. 30, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Mar. 04, 2022~ Mar. 30, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Mar. 04, 2022~ Mar. 30, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUME NT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Mar. 04, 2022~ Mar. 30, 2022	Aug. 11, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 03, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Mar. 03, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Mar. 03, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Mar. 03, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Mar. 03, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Mar. 03, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Mar. 03, 2022	Dec. 29, 2022	Conduction (CO05-HY)
EMI Test Receicver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	Mar. 15, 2022~ Mar. 26, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	Mar. 15, 2022~ Mar. 26, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 15, 2021	Mar. 15, 2022~ Mar. 26, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Mar. 15, 2022~ Mar. 26, 2022	Jun. 21, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Mar. 15, 2022~ Mar. 26, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Mar. 15, 2022~ Mar. 26, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	Mar. 15, 2022~ Mar. 26, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz-40GHz	Nov. 30, 2021	Mar. 15, 2022~ Mar. 26, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200889	N/A	Sep. 30, 2021	Mar. 15, 2022~ Mar. 26, 2022	Sep. 29, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 19, 2022	Mar. 15, 2022~ Mar. 26, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Mar. 15, 2022~ Mar. 26, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 15, 2022~ Mar. 26, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 15, 2022~ Mar. 26, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 15, 2022~ Mar. 26, 2022	N/A	Radiation (03CH20-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.9 dB**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.7 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ching Chen	Temperature:	21~25	°C
Test Date:	2022/3/4-2022/3/30	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I 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)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.78	16.78	20.65	20.15	30.00	30.00	22.25	22.25	
11a	6Mbps	1	44	5220	16.83	16.83	20.30	20.65	30.00	30.00	22.26	22.26	
11a	6Mbps	1	48	5240	16.83	16.78	20.20	20.20	30.00	30.00	22.26	22.25	

Band I 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)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	36	5180	17.73	17.68	20.45	20.60	30.00		22.48		
HT20	MCS0	2	44	5220	17.83	17.68	20.65	20.55	30.00		22.48		
HT20	MCS0	2	48	5240	17.78	17.73	20.95	21.00	30.00		22.49		
HT40	MCS0	2	38	5190	36.66	36.56	40.41	40.32	30.00		23.01		
HT40	MCS0	2	46	5230	36.46	36.46	40.41	39.78	30.00		23.01		
VHT80	MCS0	2	42	5210	76.00	76.00	83.20	81.76	30.00		23.01		

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TEST RESULTS DATA
Average Power Table

FCC Band I single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	14.00	15.30		24.00	24.00	4.50	1.50	Pass
11a	6Mbps	1	44	5220	14.00	15.10		24.00	24.00	4.50	1.50	Pass
11a	6Mbps	1	48	5240	14.00	15.20		24.00	24.00	4.50	1.50	Pass
HT20	MCS0	1	36	5180	7.10	8.50		24.00	24.00	4.50	1.50	Pass
HT20	MCS0	1	44	5220	8.20	9.50		24.00	24.00	4.50	1.50	Pass
HT20	MCS0	1	48	5240	8.20	9.60		24.00	24.00	4.50	1.50	Pass
HT40	MCS0	1	38	5190	8.10	9.40		24.00	24.00	4.50	1.50	Pass
HT40	MCS0	1	46	5230	11.20	12.40		24.00	24.00	4.50	1.50	Pass
VHT20	MCS0	1	36	5180	7.00	8.40		24.00	24.00	4.50	1.50	Pass
VHT20	MCS0	1	44	5220	8.10	9.40		24.00	24.00	4.50	1.50	Pass
VHT20	MCS0	1	48	5240	8.10	9.50		24.00	24.00	4.50	1.50	Pass
VHT40	MCS0	1	38	5190	8.00	9.30		24.00	24.00	4.50	1.50	Pass
VHT40	MCS0	1	46	5230	11.10	12.30		24.00	24.00	4.50	1.50	Pass
VHT80	MCS0	1	42	5210	4.60	5.90		24.00	24.00	4.50	1.50	Pass

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	36	5180	7.20	8.60	10.97	24.00		4.50		Pass
HT20	MCS0	2	44	5220	8.30	9.60	12.01	24.00		4.50		Pass
HT20	MCS0	2	48	5240	8.30	9.70	12.07	24.00		4.50		Pass
HT40	MCS0	2	38	5190	8.20	9.50	11.91	24.00		4.50		Pass
HT40	MCS0	2	46	5230	11.30	12.50	14.95	24.00		4.50		Pass
VHT20	MCS0	2	36	5180	7.10	8.50	10.87	24.00		4.50		Pass
VHT20	MCS0	2	44	5220	8.20	9.50	11.91	24.00		4.50		Pass
VHT20	MCS0	2	48	5240	8.20	9.60	11.97	24.00		4.50		Pass
VHT40	MCS0	2	38	5190	8.10	9.40	11.81	24.00		4.50		Pass
VHT40	MCS0	2	46	5230	11.20	12.40	14.85	24.00		4.50		Pass
VHT80	MCS0	2	42	5210	4.70	6.00	8.41	24.00		4.50		Pass

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TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	3.46	4.52		11.00	11.00	4.50	1.50	Pass
11a	6Mbps	1	44	5220	3.78	4.84		11.00	11.00	4.50	1.50	Pass
11a	6Mbps	1	48	5240	3.76	4.86		11.00	11.00	4.50	1.50	Pass

FCC Band I 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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	36	5180			-0.16	10.86		6.14		Pass
HT20	MCS0	2	44	5220			1.26	10.86		6.14		Pass
HT20	MCS0	2	48	5240			1.29	10.86		6.14		Pass
HT40	MCS0	2	38	5190			-1.80	10.86		6.14		Pass
HT40	MCS0	2	46	5230			1.46	10.86		6.14		Pass
VHT80	MCS0	2	42	5210			-8.53	10.86		6.14		Pass

Report Number : FR221836D

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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.78	16.83	20.15	21.20	23.25	23.26	29.25	29.26	23.98	23.98	
11a	6Mbps	1	60	5300	16.83	16.83	20.30	20.20	23.26	23.26	29.26	29.26	23.98	23.98	
11a	6Mbps	1	64	5320	16.83	16.83	20.35	20.15	23.26	23.26	29.26	29.26	23.98	23.98	

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 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	52	5260	17.78	17.68	20.90	20.50	23.48		29.48		23.98		
HT20	MCS0	2	60	5300	17.73	17.73	21.20	20.35	23.49		29.49		23.98		
HT20	MCS0	2	64	5320	17.78	17.68	20.60	20.65	23.48		29.48		23.98		
HT40	MCS0	2	54	5270	36.56	36.56	40.14	40.14	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.56	36.56	40.41	40.86	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.00	76.00	83.04	82.24	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	14.00	15.30		23.98	23.98	4.50	1.50	26.99	Pass
11a	6Mbps	1	60	5300	14.00	15.20		23.98	23.98	4.50	1.50	26.99	Pass
11a	6Mbps	1	64	5320	14.00	15.30		23.98	23.98	4.50	1.50	26.99	Pass
HT20	MCS0	1	52	5260	8.20	9.60		23.98	23.98	4.50	1.50	26.99	Pass
HT20	MCS0	1	60	5300	11.20	12.30		23.98	23.98	4.50	1.50	26.99	Pass
HT20	MCS0	1	64	5320	13.10	14.40		23.98	23.98	4.50	1.50	26.99	Pass
HT40	MCS0	1	54	5270	11.20	12.50		23.98	23.98	4.50	1.50	26.99	Pass
HT40	MCS0	1	62	5310	11.20	12.40		23.98	23.98	4.50	1.50	26.99	Pass
VHT20	MCS0	1	52	5260	8.10	9.50		23.98	23.98	4.50	1.50	26.99	Pass
VHT20	MCS0	1	60	5300	11.10	12.20		23.98	23.98	4.50	1.50	26.99	Pass
VHT20	MCS0	1	64	5320	13.00	14.30		23.98	23.98	4.50	1.50	26.99	Pass
VHT40	MCS0	1	54	5270	11.10	12.40		23.98	23.98	4.50	1.50	26.99	Pass
VHT40	MCS0	1	62	5310	11.10	12.30		23.98	23.98	4.50	1.50	26.99	Pass
VHT80	MCS0	1	58	5290	7.80	9.20		23.98	23.98	4.50	1.50	26.99	Pass

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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	52	5260	8.30	9.70	12.07	23.98		4.50		26.99	Pass
HT20	MCS0	2	60	5300	11.30	12.40	14.90	23.98		4.50		26.99	Pass
HT20	MCS0	2	64	5320	13.20	14.50	16.91	23.98		4.50		26.99	Pass
HT40	MCS0	2	54	5270	11.30	12.60	15.01	23.98		4.50		26.99	Pass
HT40	MCS0	2	62	5310	11.30	12.50	14.95	23.98		4.50		26.99	Pass
VHT20	MCS0	2	52	5260	8.20	9.60	11.97	23.98		4.50		26.99	Pass
VHT20	MCS0	2	60	5300	11.20	12.30	14.80	23.98		4.50		26.99	Pass
VHT20	MCS0	2	64	5320	13.10	14.40	16.81	23.98		4.50		26.99	Pass
VHT40	MCS0	2	54	5270	11.20	12.50	14.91	23.98		4.50		26.99	Pass
VHT40	MCS0	2	62	5310	11.20	12.40	14.85	23.98		4.50		26.99	Pass
VHT80	MCS0	2	58	5290	7.90	9.30	11.67	23.98		4.50		26.99	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	3.72	4.62		11.00	11.00	4.50	1.50	Pass
11a	6Mbps	1	60	5300	3.75	4.53		11.00	11.00	4.50	1.50	Pass
11a	6Mbps	1	64	5320	3.75	4.67		11.00	11.00	4.50	1.50	Pass

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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	52	5260			1.33	10.86		6.14		Pass
HT20	MCS0	2	60	5300			4.03	10.86		6.14		Pass
HT20	MCS0	2	64	5320			6.26	10.86		6.14		Pass
HT40	MCS0	2	54	5270			1.24	10.86		6.14		Pass
HT40	MCS0	2	62	5310			1.11	10.86		6.14		Pass
VHT80	MCS0	2	58	5290			-5.19	10.86		6.14		Pass

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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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.83	16.83	21.35	20.40	23.26	23.26	29.26	29.26	23.98	23.98	----	----
11a	6Mbps	1	116	5580	16.83	16.83	20.40	20.60	23.26	23.26	29.26	29.26	23.98	23.98	----	----
11a	6Mbps	1	140	5700	16.88	16.83	20.40	20.70	23.27	23.26	29.27	29.26	23.98	23.98	----	----

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 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HT20	MCS0	2	100	5500	17.73	17.68	20.35	21.10	23.48		29.48		23.98		----	----
HT20	MCS0	2	116	5580	17.73	17.68	20.90	20.50	23.48		29.48		23.98		----	----
HT20	MCS0	2	140	5700	17.73	17.73	20.65	20.50	23.49		29.49		23.98		----	----
HT40	MCS0	2	102	5510	36.66	36.66	40.14	40.23	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.56	36.56	40.41	40.23	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.56	36.56	40.32	40.05	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.00	76.00	82.72	81.76	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.12	76.00	82.56	81.92	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.44	13.39	20.35	20.85	22.28	22.27	28.28	28.27	23.98	23.98	3.25	3.25

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 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HT20	MCS0	2	144	5720	13.94	13.89	15.25	15.20	22.43		28.43		22.82		3.75	3.75
HT40	MCS0	2	142	5710	33.38	33.28	35.97	35.34	23.98		30.00		23.98		2.91	2.64
VHT80	MCS0	2	138	5690	73.12	73.12	76.92	75.96	23.98		30.00		23.98		3.24	3.4

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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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	13.40	13.60		23.98	23.98	3.90	1.90	26.99	Pass
11a	6Mbps	1	116	5580	13.20	13.40		23.98	23.98	3.90	1.90	26.99	Pass
11a	6Mbps	1	140	5700	11.30	12.60		23.98	23.98	3.90	1.90	26.99	Pass
HT20	MCS0	1	100	5500	13.20	13.90		23.98	23.98	3.90	1.90	26.99	Pass
HT20	MCS0	1	116	5580	13.00	13.70		23.98	23.98	3.90	1.90	26.99	Pass
HT20	MCS0	1	140	5700	11.10	12.70		23.98	23.98	3.90	1.90	26.99	Pass
HT40	MCS0	1	102	5510	12.10	12.90		23.98	23.98	3.90	1.90	26.99	Pass
HT40	MCS0	1	110	5550	12.00	12.70		23.98	23.98	3.90	1.90	26.99	Pass
HT40	MCS0	1	134	5670	10.80	11.70		23.98	23.98	3.90	1.90	26.99	Pass
VHT20	MCS0	1	100	5500	13.10	13.80		23.98	23.98	3.90	1.90	26.99	Pass
VHT20	MCS0	1	116	5580	12.90	13.60		23.98	23.98	3.90	1.90	26.99	Pass
VHT20	MCS0	1	140	5700	11.00	12.60		23.98	23.98	3.90	1.90	26.99	Pass
VHT40	MCS0	1	102	5510	12.00	12.80		23.98	23.98	3.90	1.90	26.99	Pass
VHT40	MCS0	1	110	5550	11.90	12.60		23.98	23.98	3.90	1.90	26.99	Pass
VHT40	MCS0	1	134	5670	10.70	11.60		23.98	23.98	3.90	1.90	26.99	Pass
VHT80	MCS0	1	106	5530	8.80	9.10		23.98	23.98	3.90	1.90	26.99	Pass
VHT80	MCS0	1	122	5610	10.20	11.20		23.98	23.98	3.90	1.90	26.99	Pass

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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	100	5500	13.30	14.00	16.67	23.98		3.90		26.99	Pass
HT20	MCS0	2	116	5580	13.10	13.80	16.47	23.98		3.90		26.99	Pass
HT20	MCS0	2	140	5700	11.20	12.80	15.08	23.98		3.90		26.99	Pass
HT40	MCS0	2	102	5510	12.20	13.00	15.63	23.98		3.90		26.99	Pass
HT40	MCS0	2	110	5550	12.10	12.80	15.47	23.98		3.90		26.99	Pass
HT40	MCS0	2	134	5670	10.90	11.80	14.38	23.98		3.90		26.99	Pass
VHT20	MCS0	2	100	5500	13.20	13.90	16.57	23.98		3.90		26.99	Pass
VHT20	MCS0	2	116	5580	13.00	13.70	16.37	23.98		3.90		26.99	Pass
VHT20	MCS0	2	140	5700	11.10	12.70	14.98	23.98		3.90		26.99	Pass
VHT40	MCS0	2	102	5510	12.10	12.90	15.53	23.98		3.90		26.99	Pass
VHT40	MCS0	2	110	5550	12.00	12.70	15.37	23.98		3.90		26.99	Pass
VHT40	MCS0	2	134	5670	10.80	11.70	14.28	23.98		3.90		26.99	Pass
VHT80	MCS0	2	106	5530	8.90	9.20	12.06	23.98		3.90		26.99	Pass
VHT80	MCS0	2	122	5610	10.30	11.30	13.84	23.98		3.90		26.99	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	13.00	14.60		23.98	23.98	3.90	1.90	26.99	Pass
HT20	MCS0	1	144	5720	12.10	13.70		23.98	23.98	3.90	1.90	26.99	Pass
HT40	MCS0	1	142	5710	11.10	12.80		23.98	23.98	3.90	1.90	26.99	Pass
VHT20	MCS0	1	144	5720	12.00	13.60		23.98	23.98	3.90	1.90	26.99	Pass
VHT40	MCS0	1	142	5710	11.00	12.70		23.98	23.98	3.90	1.90	26.99	Pass
VHT80	MCS0	1	138	5690	9.80	11.30		23.98	23.98	3.90	1.90	26.99	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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	144	5720	12.20	13.80	16.08	22.82		3.90		26.99	Pass
HT40	MCS0	2	142	5710	11.20	12.90	15.14	23.98		3.90		26.99	Pass
VHT20	MCS0	2	144	5720	12.10	13.70	15.98	23.98		3.90		26.99	Pass
VHT40	MCS0	2	142	5710	11.10	12.80	15.04	23.98		3.90		26.99	Pass
VHT80	MCS0	2	138	5690	9.90	11.40	13.72	23.98		3.90		26.99	Pass

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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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	2.95	2.37		11.00	11.00	3.90	1.90	Pass
11a	6Mbps	1	116	5580	2.63	2.54		11.00	11.00	3.90	1.90	Pass
11a	6Mbps	1	140	5700	1.19	1.41		11.00	11.00	3.90	1.90	Pass

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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	100	5500			5.88	11.00		5.97		Pass
HT20	MCS0	2	116	5580			5.70	11.00		5.97		Pass
HT20	MCS0	2	140	5700			4.98	11.00		5.97		Pass
HT40	MCS0	2	102	5510			1.72	11.00		5.97		Pass
HT40	MCS0	2	110	5550			1.71	11.00		5.97		Pass
HT40	MCS0	2	134	5670			0.42	11.00		5.97		Pass
VHT80	MCS0	2	106	5530			-5.28	11.00		5.97		Pass
VHT80	MCS0	2	122	5610			-3.31	11.00		5.97		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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	144	5720	3.20	3.43		11.00	11.00	3.90	1.90	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 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	144	5720			5.19	11.00		5.97		Pass
HT40	MCS0	2	142	5710			1.18	11.00		5.97		Pass
VHT80	MCS0	2	138	5690			-3.45	11.00		5.97		Pass

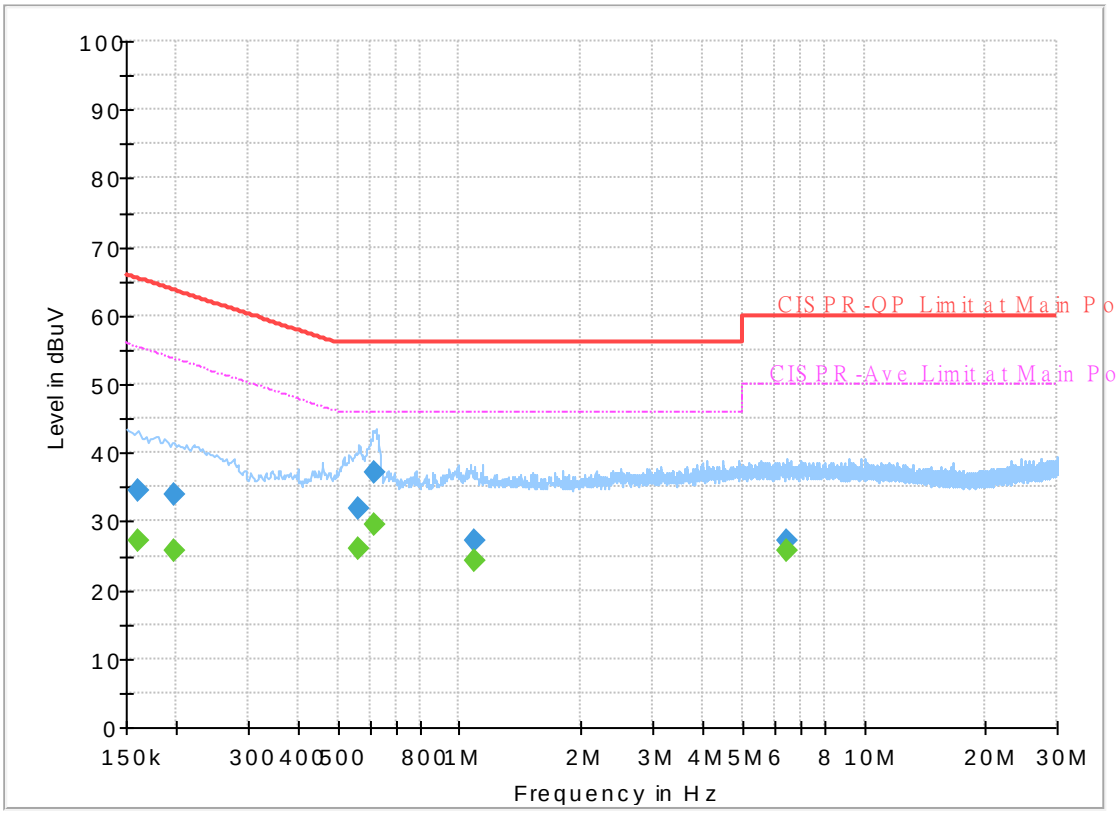
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	221836
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



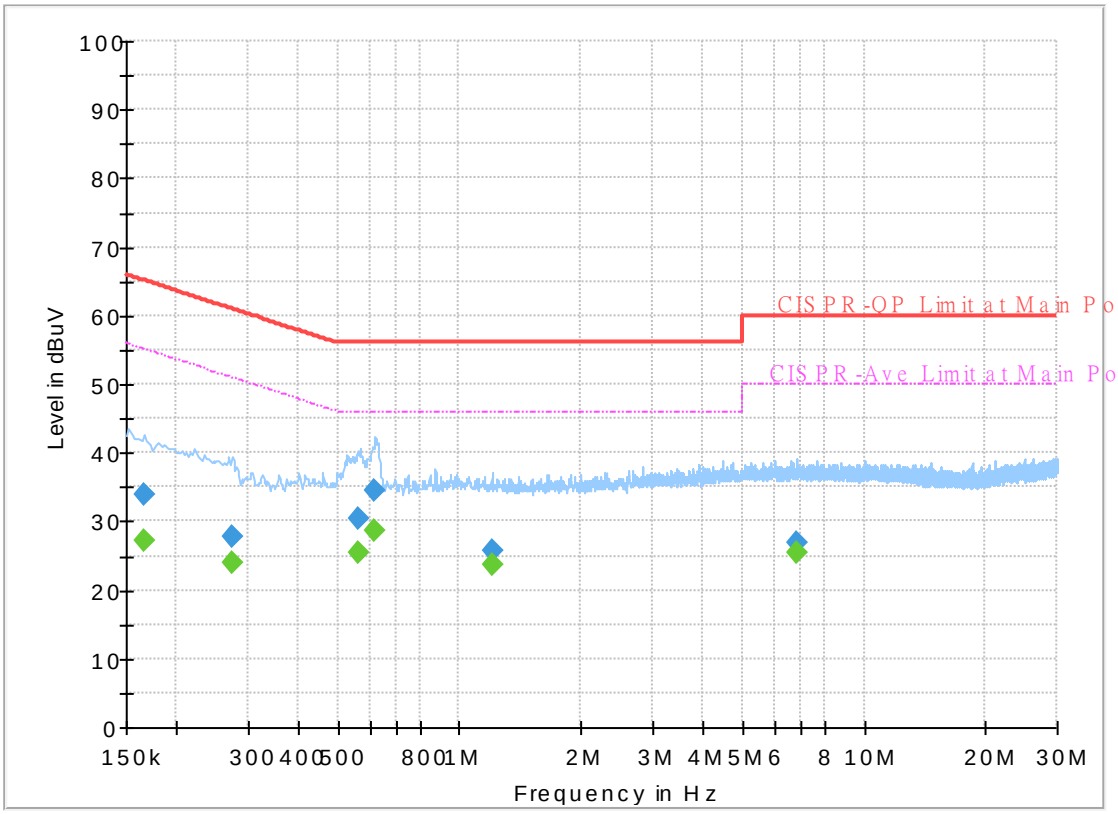
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	27.06	55.40	28.34	L1	OFF	19.6
0.161250	34.63	---	65.40	30.77	L1	OFF	19.6
0.197250	---	25.79	53.73	27.94	L1	OFF	19.6
0.197250	33.80	---	63.73	29.93	L1	OFF	19.6
0.564000	---	26.04	46.00	19.96	L1	OFF	19.6
0.564000	31.86	---	56.00	24.14	L1	OFF	19.6
0.613500	---	29.65	46.00	16.35	L1	OFF	19.6
0.613500	37.12	---	56.00	18.88	L1	OFF	19.6
1.086000	---	24.29	46.00	21.71	L1	OFF	19.6
1.086000	27.31	---	56.00	28.69	L1	OFF	19.6
6.429750	---	25.67	50.00	24.33	L1	OFF	19.9
6.429750	27.06	---	60.00	32.94	L1	OFF	19.9

EUT Information

Report NO :	221836
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)
0.165750	---	27.19	55.17	27.98	N	OFF	19.6
0.165750	34.06	---	65.17	31.11	N	OFF	19.6
0.273750	---	24.09	51.00	26.91	N	OFF	19.6
0.273750	27.92	---	61.00	33.08	N	OFF	19.6
0.559500	---	25.58	46.00	20.42	N	OFF	19.6
0.559500	30.48	---	56.00	25.52	N	OFF	19.6
0.618000	---	28.63	46.00	17.37	N	OFF	19.6
0.618000	34.39	---	56.00	21.61	N	OFF	19.6
1.203000	---	23.73	46.00	22.27	N	OFF	19.6
1.203000	25.77	---	56.00	30.23	N	OFF	19.6
6.803250	---	25.55	50.00	24.45	N	OFF	19.9
6.803250	26.85	---	60.00	33.15	N	OFF	19.9

Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, JC Liang and Bigshow Wang	Temperature :	18~20°C
		Relative Humidity :	68~70%

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5457.84	60.36	-13.64	74	51.95	32.92	13.34	37.85	103	23	P	H
		5468.08	62.91	-5.29	68.2	54.48	32.94	13.35	37.86	103	23	P	H
		5459.92	43.85	-10.15	54	35.45	32.92	13.34	37.86	103	23	A	H
	*	5500	110.8	-	-	102.28	33	13.39	37.87	103	23	P	H
	*	5500	102.84	-	-	94.32	33	13.39	37.87	103	23	A	H
													H
		5456.72	51.83	-22.17	74	43.44	32.91	13.33	37.85	358	60	P	V
		5468.88	54.53	-13.67	68.2	46.1	32.94	13.35	37.86	358	60	P	V
		5459.92	38.25	-15.75	54	29.85	32.92	13.34	37.86	358	60	A	V
	*	5500	104.21	-	-	95.69	33	13.39	37.87	358	60	P	V
	*	5500	95.85	-	-	87.33	33	13.39	37.87	358	60	A	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	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		10245	50.5	-17.7	68.2	34.46	38.76	18.79	41.51	-	-	P	H
		10245	41.08	-12.92	54	25.04	38.76	18.79	41.51	-	-	A	H
		11000	56.08	-17.92	74	39.49	38.7	19.55	41.66	100	90	P	H
		11000	47.39	-6.61	54	30.8	38.7	19.55	41.66	100	90	A	H
		13259	52.53	-21.47	74	34.45	39.76	21.47	43.15	-	-	P	H
		13259	42.15	-11.85	54	24.07	39.76	21.47	43.15	-	-	A	H
		16500	53.68	-14.52	68.2	36.14	38.2	23.72	44.38	-	-	P	H
		17780	55.28	-18.72	74	36.01	40.04	24.54	45.31	-	-	P	H
		17780	45.69	-8.31	54	26.42	40.04	24.54	45.31	-	-	A	H
													H
													H
													H
		10168	51.89	-16.31	68.2	35.82	38.8	18.71	41.44	-	-	P	V
		10168	40.42	-13.58	54	24.35	38.8	18.71	41.44	-	-	A	V
		11000	59.45	-14.55	74	42.86	38.7	19.55	41.66	361	234	P	V
		11000	47.56	-6.44	54	30.97	38.7	19.55	41.66	361	234	A	V
		13347	52.58	-21.42	74	34.3	39.89	21.55	43.16	-	-	P	V
		13347	42.79	-11.21	54	24.51	39.89	21.55	43.16	-	-	A	V
		16500	56.83	-11.37	68.2	39.29	38.2	23.72	44.38	-	-	P	V
		17989	55.58	-18.42	74	34.65	41.72	24.67	45.46	-	-	P	V
		17989	47.27	-6.73	54	26.34	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission above 18GHz

WIFI 802.11a (SHF @ 1m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		39516	52.56	-21.44	74	37.96	44.69	26.19	56.28	-	-	P	H
		39516	41.62	-12.38	54	27.02	44.69	26.19	56.28	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a													H
SHF		39406	53.83	-20.17	74	39.46	44.62	26.13	56.38	-	-	P	V
		39406	43.04	-10.96	54	28.67	44.62	26.13	56.38	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		51.34	32.85	-7.15	40	53.15	13.82	1.52	35.64	-	-	P	H
		112.45	26.05	-17.45	43.5	42.17	17.26	2.14	35.52	-	-	P	H
		148.34	27.48	-16.02	43.5	43.15	17.35	2.45	35.47	-	-	P	H
		351.07	27.26	-18.74	46	38.24	20.44	3.58	35	-	-	P	H
		405.39	27.91	-18.09	46	36.76	22.13	3.85	34.83	-	-	P	H
		600.36	31.81	-14.19	46	36.03	25.47	4.69	34.38	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		73.65	29.44	-10.56	40	50.7	12.56	1.76	35.58	-	-	P	V
		136.7	26.15	-17.35	43.5	41.77	17.51	2.37	35.5	-	-	P	V
		293.84	25.63	-20.37	46	38.24	19.27	3.3	35.18	-	-	P	V
		600.36	33.8	-12.2	46	38.02	25.47	4.69	34.38	-	-	P	V
		717.73	36.6	-9.4	46	38.76	26.68	5.03	33.87	-	-	P	V
		949.56	35.6	-10.4	46	32.17	30.42	5.99	32.98	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	53.88	-20.12	74	45.77	33.1	12.75	37.74	392	20	P	H
		5150	40.78	-13.22	54	32.66	33.1	12.76	37.74	392	20	A	H
	*	5180	100.62	-	-	92.52	33.04	12.81	37.75	392	20	P	H
	*	5180	92.18	-	-	84.08	33.04	12.81	37.75	392	20	A	H
													H
													H
		5148.2	65.4	-8.6	74	57.29	33.1	12.75	37.74	271	322	P	V
		5150	50.15	-3.85	54	42.03	33.1	12.76	37.74	271	322	A	V
	*	5180	111.94	-	-	103.84	33.04	12.81	37.75	271	322	P	V
	*	5180	103.67	-	-	95.57	33.04	12.81	37.75	271	322	A	V
													V
													V
802.11a CH 44 5220MHz		5093.6	48.55	-25.45	74	40.53	33.09	12.65	37.72	360	25	P	H
		5090.48	37.8	-16.2	54	29.8	33.08	12.64	37.72	360	25	A	H
	*	5220	100.89	-	-	92.85	32.92	12.89	37.77	360	25	P	H
	*	5220	92.92	-	-	84.88	32.92	12.89	37.77	360	25	A	H
		5459.44	47.53	-26.47	74	39.13	32.92	13.34	37.86	360	25	P	H
		5392.52	36.71	-17.29	54	28.43	32.87	13.24	37.83	360	25	A	H
		5074.1	58.42	-15.58	74	50.48	33.05	12.61	37.72	247	296	P	V
		5147.42	42.4	-11.6	54	34.29	33.1	12.75	37.74	247	296	A	V
	*	5220	110.87	-	-	102.83	32.92	12.89	37.77	247	296	P	V
	*	5220	103.42	-	-	95.38	32.92	12.89	37.77	247	296	A	V
		5394.76	53.25	-20.75	74	44.95	32.88	13.25	37.83	247	296	P	V
		5351.92	41.62	-12.38	54	33.57	32.71	13.16	37.82	247	296	A	V

802.11a CH 48 5240MHz		5098.54	48.79	-25.21	74	40.76	33.1	12.66	37.73	399	24	P	H
		5094.64	37.8	-16.2	54	29.78	33.09	12.65	37.72	399	24	A	H
	*	5240	100.82	-	-	92.83	32.84	12.93	37.78	399	24	P	H
	*	5240	93.52	-	-	85.53	32.84	12.93	37.78	399	24	A	H
		5410.16	48.44	-25.56	74	40.11	32.9	13.27	37.84	399	24	P	H
		5390.84	37.28	-16.72	54	29.01	32.86	13.24	37.83	399	24	A	H
		5048.88	53.85	-20.15	74	46	33	12.56	37.71	264	318	P	V
		5075.14	42.3	-11.7	54	34.36	33.05	12.61	37.72	264	318	A	V
	*	5240	110.95	-	-	102.96	32.84	12.93	37.78	264	318	P	V
	*	5240	103.67	-	-	95.68	32.84	12.93	37.78	264	318	A	V
		5361.72	53.42	-20.58	74	45.31	32.75	13.18	37.82	264	318	P	V
		5360.6	42.1	-11.9	54	34	32.74	13.18	37.82	264	318	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	52.79	-15.41	68.2	36.89	38.6	18.91	41.61	-	-	P	H
		13391	53.24	-20.76	74	34.86	39.98	21.57	43.17	-	-	P	H
		13391	43.24	-10.76	54	24.86	39.98	21.57	43.17	-	-	A	H
		14500	52.9	-21.1	74	34.79	39.9	22.4	44.19	-	-	P	H
		14500	42.9	-11.1	54	24.79	39.9	22.4	44.19	-	-	A	H
		15540	61.17	-12.83	74	44.87	37.98	23.1	44.78	364	211	P	H
		15540	49.74	-4.26	54	33.44	37.98	23.1	44.78	364	211	A	H
		17923	55.84	-18.16	74	35.36	41.26	24.63	45.41	-	-	P	H
		17923	45.86	-8.14	54	25.38	41.26	24.63	45.41	-	-	A	H
													H
													H
													H
		10360	54.47	-13.73	68.2	38.57	38.6	18.91	41.61	-	-	P	V
		13303	53.62	-20.38	74	35.45	39.81	21.51	43.15	-	-	P	V
		13303	43.62	-10.38	54	25.45	39.81	21.51	43.15	-	-	A	V
		14500	44.67	-9.33	54	26.56	39.9	22.4	44.19	-	-	A	V
		14500	54.7	-13.5	68.2	36.59	39.9	22.4	44.19	-	-	P	V
		15540	61.63	-12.37	74	45.33	37.98	23.1	44.78	384	188	P	V
		15540	50.49	-3.51	54	34.19	37.98	23.1	44.78	384	188	A	V
		17989	55.49	-18.51	74	34.56	41.72	24.67	45.46	-	-	P	V
		17989	45.51	-8.49	54	24.58	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

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)
		10440	54.27	-13.93	68.2	38.41	38.56	18.99	41.69	-	-	P	H
		13292	54.2	-19.8	74	36.06	39.79	21.5	43.15	-	-	P	H
		13292	44.27	-9.73	54	26.13	39.79	21.5	43.15	-	-	A	H
		14480	53.68	-20.32	74	35.6	39.88	22.39	44.19	-	-	P	H
		14480	43.73	-10.27	54	25.65	39.88	22.39	44.19	-	-	A	H
		15660	59.57	-14.43	74	43.32	37.74	23.18	44.67	362	211	P	H
		15660	49.13	-4.87	54	32.88	37.74	23.18	44.67	362	211	A	H
		17945	55.8	-18.2	74	35.17	41.41	24.65	45.43	-	-	P	H
		17945	45.82	-8.18	54	25.19	41.41	24.65	45.43	-	-	A	H
													H
													H
802.11a													H
CH 44		10440	55.59	-12.61	68.2	39.73	38.56	18.99	41.69	-	-	P	V
5220MHz		13347	54.1	-19.9	74	35.82	39.89	21.55	43.16	-	-	P	V
		13347	44.09	-9.91	54	25.81	39.89	21.55	43.16	-	-	A	V
		14500	53.66	-20.34	74	35.55	39.9	22.4	44.19	-	-	P	V
		14500	43.7	-10.3	54	25.59	39.9	22.4	44.19	-	-	A	V
		15660	60.63	-13.37	74	44.38	37.74	23.18	44.67	380	185	P	V
		15660	50.43	-3.57	54	34.18	37.74	23.18	44.67	380	185	A	V
		18000	56.17	-17.83	74	35.16	41.8	24.68	45.47	-	-	P	V
		18000	46.23	-7.77	54	25.22	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

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)
		10480	54.01	-14.19	68.2	38.18	38.52	19.03	41.72	-	-	P	H
		13369	54	-20	74	35.66	39.94	21.57	43.17	-	-	P	H
		13369	43.93	-10.07	54	25.59	39.94	21.57	43.17	-	-	A	H
		14470	54.03	-19.97	74	35.96	39.87	22.38	44.18	-	-	P	H
		14470	43.99	-10.01	54	25.92	39.87	22.38	44.18	-	-	A	H
		15720	59.62	-14.38	74	43.37	37.64	23.22	44.61	361	208	P	H
		15720	49.08	-4.92	54	32.83	37.64	23.22	44.61	361	208	A	H
		17989	55.79	-18.21	74	34.86	41.72	24.67	45.46	-	-	P	H
		17989	45.92	-8.08	54	24.99	41.72	24.67	45.46	-	-	A	H
													H
													H
802.11a													H
CH 48		10480	55.49	-12.71	68.2	39.66	38.52	19.03	41.72	-	-	P	V
5240MHz		13325	54.18	-19.82	74	35.96	39.85	21.53	43.16	-	-	P	V
		13325	44.14	-9.86	54	25.92	39.85	21.53	43.16	-	-	A	V
		14491	53.55	-20.45	74	35.45	39.89	22.4	44.19	-	-	P	V
		14491	43.52	-10.48	54	25.42	39.89	22.4	44.19	-	-	A	V
		15720	61.19	-12.81	74	44.94	37.64	23.22	44.61	357	187	P	V
		15720	50.18	-3.82	54	33.93	37.64	23.22	44.61	357	187	A	V
		17791	55.89	-18.11	74	36.53	40.13	24.55	45.32	-	-	P	V
		17791	45.94	-8.06	54	26.58	40.13	24.55	45.32	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

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		5094.18	48.97	-25.03	74	40.95	33.09	12.65	37.72	400	24	P	H
		5095.54	38.05	-15.95	54	30.03	33.09	12.65	37.72	400	24	A	H
	*	5260	102.31	-	-	94.28	32.84	12.97	37.78	400	24	P	H
	*	5260	93.96	-	-	85.93	32.84	12.97	37.78	400	24	A	H
		5431.68	47.7	-26.3	74	39.35	32.9	13.3	37.85	400	24	P	H
		5388	37.58	-16.42	54	29.32	32.85	13.24	37.83	400	24	A	H
		5079.22	53.32	-20.68	74	45.36	33.06	12.62	37.72	245	288	P	V
		5093.16	41.52	-12.48	54	33.5	33.09	12.65	37.72	245	288	A	V
	*	5260	110.97	-	-	102.94	32.84	12.97	37.78	245	288	P	V
	*	5260	103.41	-	-	95.38	32.84	12.97	37.78	245	288	A	V
		5402.88	53.05	-20.95	74	44.73	32.9	13.26	37.84	245	288	P	V
		5354.64	42.38	-11.62	54	34.31	32.72	13.17	37.82	245	288	A	V
802.11a CH 60 5300MHz		5069.7	48.19	-25.81	74	40.27	33.04	12.6	37.72	352	28	P	H
		5103.02	37.79	-16.21	54	29.75	33.1	12.67	37.73	352	28	A	H
	*	5300	100.95	-	-	92.69	33	13.06	37.8	352	28	P	H
	*	5300	93.68	-	-	85.42	33	13.06	37.8	352	28	A	H
		5405.52	47.67	-26.33	74	39.34	32.9	13.27	37.84	352	28	P	H
		5416.08	37.28	-16.72	54	28.94	32.9	13.28	37.84	352	28	A	H
		5121.04	51.63	-22.37	74	43.56	33.1	12.7	37.73	257	297	P	V
		5130.9	41.53	-12.47	54	33.45	33.1	12.72	37.74	257	297	A	V
	*	5300	110.78	-	-	102.52	33	13.06	37.8	257	297	P	V
	*	5300	103.67	-	-	95.41	33	13.06	37.8	257	297	A	V
		5352.96	56.9	-17.1	74	48.85	32.71	13.16	37.82	257	297	P	V
		5350.08	44.67	-9.33	54	36.63	32.7	13.16	37.82	257	297	A	V

802.11a CH 64 5320MHz	*	5320	100.33	-	-	92.16	32.88	13.1	37.81	386	30	P	H
	*	5320	92.74	-	-	84.57	32.88	13.1	37.81	386	30	A	H
		5350.24	56.09	-17.91	74	48.05	32.7	13.16	37.82	386	30	P	H
		5350.08	39.12	-14.88	54	31.08	32.7	13.16	37.82	386	30	A	H
													H
													H
	*	5320	110.36	-	-	102.19	32.88	13.1	37.81	262	300	P	V
	*	5320	103.08	-	-	94.91	32.88	13.1	37.81	262	300	A	V
		5352	64.68	-9.32	74	56.63	32.71	13.16	37.82	262	300	P	V
		5350.08	47.95	-6.05	54	39.91	32.7	13.16	37.82	262	300	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	53.04	-15.16	68.2	37.15	38.56	19.07	41.74	-	-	P	H
		12533	51.7	-22.3	74	34.93	39.23	20.83	43.29	-	-	P	H
		12533	41.1	-12.9	54	24.33	39.23	20.83	43.29	-	-	A	H
		13391	52.88	-21.12	74	34.5	39.98	21.57	43.17	-	-	P	H
		13391	42.73	-11.27	54	24.35	39.98	21.57	43.17	-	-	A	H
		15780	58.37	-15.63	74	42.21	37.46	23.25	44.55	381	207	P	H
		15780	48.58	-5.42	54	32.42	37.46	23.25	44.55	381	207	A	H
		17956	55.45	-18.55	74	34.75	41.49	24.65	45.44	-	-	P	H
		17956	46.08	-7.92	54	25.38	41.49	24.65	45.44	-	-	A	H
													H
													H
													H
		10520	54.91	-13.29	68.2	39.02	38.56	19.07	41.74	-	-	P	V
		12544	51.71	-22.29	74	34.91	39.24	20.84	43.28	-	-	P	V
		12544	41.33	-12.67	54	24.53	39.24	20.84	43.28	-	-	A	V
		13391	52.6	-21.4	74	34.22	39.98	21.57	43.17	-	-	P	V
		13391	43.01	-10.99	54	24.63	39.98	21.57	43.17	-	-	A	V
		15780	60.69	-13.31	74	44.53	37.46	23.25	44.55	373	186	P	V
		15780	49.44	-4.56	54	33.28	37.46	23.25	44.55	373	186	A	V
		17956	54.78	-19.22	74	34.08	41.49	24.65	45.44	-	-	P	V
		17956	46.18	-7.82	54	25.48	41.49	24.65	45.44	-	-	A	V
													V
													V
													V

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)
		10600	57.67	-16.33	74	41.44	38.8	19.15	41.72	196	250	P	H
		10600	46.87	-7.13	54	30.64	38.8	19.15	41.72	196	250	A	H
		13303	53.31	-20.69	74	35.14	39.81	21.51	43.15	-	-	P	H
		13303	44.34	-9.66	54	26.17	39.81	21.51	43.15	-	-	A	H
		14480	52.95	-21.05	74	34.87	39.88	22.39	44.19	-	-	P	H
		14480	43.94	-10.06	54	25.86	39.88	22.39	44.19	-	-	A	H
		15900	21.15	-52.85	74	4.87	37.4	23.32	44.44	348	208	P	H
		15900	47.69	-6.31	54	31.41	37.4	23.32	44.44	348	208	A	H
		17989	55.21	-18.79	74	34.28	41.72	24.67	45.46	-	-	P	H
		17989	46.17	-7.83	54	25.24	41.72	24.67	45.46	-	-	A	H
													H
802.11a CH 60 5300MHz													H
		10600	60.95	-13.05	74	44.72	38.8	19.15	41.72	198	302	P	V
		10600	49.11	-4.89	54	32.88	38.8	19.15	41.72	198	302	A	V
		13400	54.39	-13.81	68.2	35.98	40	21.58	43.17	-	-	P	V
		13400	45.32	-8.68	54	26.91	40	21.58	43.17	-	-	A	V
		14500	54.04	-19.96	74	35.93	39.9	22.4	44.19	-	-	P	V
		14500	45.01	-8.99	54	26.9	39.9	22.4	44.19	-	-	A	V
		15900	57.89	-16.11	74	41.61	37.4	23.32	44.44	349	184	P	V
		15900	47.74	-6.26	54	31.46	37.4	23.32	44.44	349	184	A	V
		17890	56.38	-17.62	74	36.15	41.01	24.61	45.39	-	-	P	V
		17890	47.36	-6.64	54	27.13	41.01	24.61	45.39	-	-	A	V
													V
													V

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)
		10640	59.51	-14.49	74	43.2	38.84	19.19	41.72	198	254	P	H
		10640	48.37	-5.63	54	32.06	38.84	19.19	41.72	198	254	A	H
		13369	53.09	-20.91	74	34.75	39.94	21.57	43.17	-	-	P	H
		13369	43.09	-10.91	54	24.75	39.94	21.57	43.17	-	-	A	H
		14470	53.69	-20.31	74	35.62	39.87	22.38	44.18	-	-	P	H
		14470	43.69	-10.31	54	25.62	39.87	22.38	44.18	-	-	A	H
		15960	58.22	-15.78	74	41.72	37.52	23.36	44.38	318	209	P	H
		15960	47.83	-6.17	54	31.33	37.52	23.36	44.38	318	209	A	H
		17780	55.44	-18.56	74	36.17	40.04	24.54	45.31	-	-	P	H
		17780	45.42	-8.58	54	26.15	40.04	24.54	45.31	-	-	A	H
													H
802.11a CH 64 5320MHz													H
		10640	62.26	-11.74	74	45.95	38.84	19.19	41.72	199	311	P	V
		10640	50.42	-3.58	54	34.11	38.84	19.19	41.72	199	311	A	V
		13358	54.22	-19.78	74	35.9	39.92	21.56	43.16	-	-	P	V
		13358	45.17	-8.83	54	26.85	39.92	21.56	43.16	-	-	A	V
		14470	53.99	-20.01	74	35.92	39.87	22.38	44.18	-	-	P	V
		14470	44.98	-9.02	54	26.91	39.87	22.38	44.18	-	-	A	V
		15960	59.02	-14.98	74	42.52	37.52	23.36	44.38	351	185	P	V
		15960	47.54	-6.46	54	31.04	37.52	23.36	44.38	351	185	A	V
		17945	55.31	-18.69	74	34.68	41.41	24.65	45.43	-	-	P	V
		17945	46.31	-7.69	54	25.68	41.41	24.65	45.43	-	-	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

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		5459.76	47.5	-26.5	74	39.1	32.92	13.34	37.86	400	20	P	H
		5468.56	51.91	-16.29	68.2	43.48	32.94	13.35	37.86	400	20	P	H
		5459.92	37.21	-16.79	54	28.81	32.92	13.34	37.86	400	20	A	H
	*	5500	100.2	-	-	91.68	33	13.39	37.87	400	20	P	H
	*	5500	92.59	-	-	84.07	33	13.39	37.87	400	20	A	H
													H
		5459.6	58.69	-15.31	74	50.29	32.92	13.34	37.86	258	320	P	V
		5470	61.94	-6.26	68.2	53.51	32.94	13.35	37.86	258	320	P	V
		5460	43.41	-10.59	54	35.01	32.92	13.34	37.86	258	320	A	V
	*	5500	109.32	-	-	100.8	33	13.39	37.87	258	320	P	V
	*	5500	101.02	-	-	92.5	33	13.39	37.87	258	320	A	V
													V
802.11a CH 116 5580MHz		5415.28	47.31	-26.69	74	38.97	32.9	13.28	37.84	350	26	P	H
		5462.56	47.37	-20.83	68.2	38.96	32.93	13.34	37.86	350	26	P	H
		5458.96	37.07	-16.93	54	28.67	32.92	13.34	37.86	350	26	A	H
	*	5580	98.86	-	-	90.18	33.08	13.49	37.89	350	26	P	H
	*	5580	91.53	-	-	82.85	33.08	13.49	37.89	350	26	A	H
		5762.795	48.43	-19.77	68.2	38.84	33.93	13.59	37.93	350	26	P	H
		5453.2	52.34	-21.66	74	43.95	32.91	13.33	37.85	262	321	P	V
		5466.88	50.74	-17.46	68.2	42.32	32.93	13.35	37.86	262	321	P	V
		5459.2	40.67	-13.33	54	32.27	32.92	13.34	37.86	262	321	A	V
	*	5580	109.61	-	-	100.93	33.08	13.49	37.89	262	321	P	V
	*	5580	101.41	-	-	92.73	33.08	13.49	37.89	262	321	A	V
		5726.57	50.94	-17.26	68.2	41.53	33.76	13.57	37.92	262	321	P	V

802.11a CH 140 5700MHz	*	5700	98.23	-	-	88.98	33.6	13.56	37.91	382	23	P	H
	*	5700	91.08	-	-	81.83	33.6	13.56	37.91	382	23	A	H
		5725.4	58.36	-9.84	68.2	48.96	33.75	13.57	37.92	382	23	P	H
													H
													H
													H
	*	5700	109.32	-	-	100.07	33.6	13.56	37.91	247	301	P	V
	*	5700	101.51	-	-	92.26	33.6	13.56	37.91	247	301	A	V
		5725.4	66.09	-2.11	68.2	56.69	33.75	13.57	37.92	247	301	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	62.32	-11.68	74	45.73	38.7	19.55	41.66	195	234	P	H
		11000	49.65	-4.35	54	33.06	38.7	19.55	41.66	195	234	A	H
		12181	51.36	-22.64	74	34.79	39.2	20.5	43.13	-	-	P	H
		12181	40.94	-13.06	54	24.37	39.2	20.5	43.13	-	-	A	H
		13380	52.61	-21.39	74	34.25	39.96	21.57	43.17	-	-	P	H
		13380	42.61	-11.39	54	24.25	39.96	21.57	43.17	-	-	A	H
		16500	52.33	-15.87	68.2	34.79	38.2	23.72	44.38	-	-	P	H
		17967	54.27	-19.73	74	33.49	41.57	24.66	45.45	-	-	P	H
		17967	46.27	-7.73	54	25.49	41.57	24.66	45.45	-	-	A	H
													H
													H
													H
		11000	64.41	-9.59	74	47.82	38.7	19.55	41.66	196	306	P	V
		11000	52.96	-1.04	54	36.37	38.7	19.55	41.66	196	306	A	V
		12126	51.45	-22.55	74	34.91	39.2	20.44	43.1	-	-	P	V
		12126	40.83	-13.17	54	24.29	39.2	20.44	43.1	-	-	A	V
		13250	52.82	-15.38	68.2	34.74	39.75	21.47	43.14	-	-	P	V
		13250	42.53	-11.47	54	24.45	39.75	21.47	43.14	-	-	A	V
		16500	53.16	-15.04	68.2	35.62	38.2	23.72	44.38	-	-	P	V
		17956	55.1	-18.9	74	34.4	41.49	24.65	45.44	-	-	P	V
		17956	46.12	-7.88	54	25.42	41.49	24.65	45.44	-	-	A	V
													V
													V
													V

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)
		11160	61.83	-12.17	74	45.37	38.76	19.68	41.98	209	227	P	H
		11160	49.69	-4.31	54	33.23	38.76	19.68	41.98	209	227	A	H
		12379	51.78	-22.22	74	35.3	39.02	20.69	43.23	-	-	P	H
		12379	40.86	-13.14	54	24.38	39.02	20.69	43.23	-	-	A	H
		13347	52.45	-21.55	74	34.17	39.89	21.55	43.16	-	-	P	H
		13347	42.55	-11.45	54	24.27	39.89	21.55	43.16	-	-	A	H
		16740	51.79	-16.41	68.2	34.09	38.22	23.88	44.4	-	-	P	H
		18000	54.44	-19.56	74	33.43	41.8	24.68	45.47	-	-	P	H
		18000	46.35	-7.65	54	25.34	41.8	24.68	45.47	-	-	A	H
													H
													H
802.11a													H
CH 116		11160	64.33	-9.67	74	47.87	38.76	19.68	41.98	208	323	P	V
5580MHz		11160	52.5	-1.5	54	36.04	38.76	19.68	41.98	208	323	A	V
		12049	51.85	-22.15	74	35.43	39.1	20.38	43.06	-	-	P	V
		12049	40.77	-13.23	54	24.35	39.1	20.38	43.06	-	-	A	V
		13336	52.14	-21.86	74	33.89	39.87	21.54	43.16	-	-	P	V
		13336	42.54	-11.46	54	24.29	39.87	21.54	43.16	-	-	A	V
		16740	52.8	-15.4	68.2	35.1	38.22	23.88	44.4	-	-	P	V
		17890	54.28	-19.72	74	34.05	41.01	24.61	45.39	-	-	P	V
		17890	45.58	-8.42	54	25.35	41.01	24.61	45.39	-	-	A	V
													V
													V
													V

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)
		11400	54.55	-19.45	74	38.05	39.1	19.86	42.46	192	220	P	H
		11400	42.94	-11.06	54	26.44	39.1	19.86	42.46	192	220	A	H
		13400	53.59	-20.41	74	35.18	40	21.58	43.17	-	-	P	H
		13400	44.56	-9.44	54	26.15	40	21.58	43.17	-	-	A	H
		14500	53.5	-20.5	74	35.39	39.9	22.4	44.19	-	-	P	H
		14500	44.49	-9.51	54	26.38	39.9	22.4	44.19	-	-	A	H
		17098	51.12	-17.08	68.2	33.57	38	24.11	44.56	-	-	P	H
		17923	55.14	-18.86	74	34.66	41.26	24.63	45.41	-	-	P	H
		17923	46.16	-7.84	54	25.68	41.26	24.63	45.41	-	-	A	H
													H
													H
802.11a													H
CH 140		11400	57.22	-16.78	74	40.72	39.1	19.86	42.46	210	152	P	V
5700MHz		11400	37.38	-16.62	54	20.88	39.1	19.86	42.46	210	152	A	V
		13400	53.17	-20.83	74	34.76	40	21.58	43.17	-	-	P	V
		13400	44.16	-9.84	54	25.75	40	21.58	43.17	-	-	A	V
		14491	53.47	-20.53	74	35.37	39.89	22.4	44.19	-	-	P	V
		14491	44.52	-9.48	54	26.42	39.89	22.4	44.19	-	-	A	V
		17100	51.54	-16.66	68.2	33.99	38	24.11	44.56	-	-	P	V
		18000	55.63	-18.37	74	34.62	41.8	24.68	45.47	-	-	P	V
		18000	46.69	-7.31	54	25.68	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5432.68	47.56	-26.44	74	39.21	32.9	13.3	37.85	381	27	P	H
		5464.27	47.85	-20.35	68.2	39.44	32.93	13.34	37.86	381	27	P	H
		5455.69	37.36	-16.64	54	28.97	32.91	13.33	37.85	381	27	A	H
	*	5720	102.91	-	-	93.54	33.72	13.57	37.92	381	27	P	H
	*	5720	95.44	-	-	86.07	33.72	13.57	37.92	381	27	A	H
		5850	49.77	-18.43	68.2	39.94	34.1	13.68	37.95	381	27	P	H
		5441.65	51.59	-22.41	74	43.23	32.9	13.31	37.85	254	281	P	V
		5465.44	52.04	-16.16	68.2	43.62	32.93	13.35	37.86	254	281	P	V
		5459.98	40.26	-13.74	54	31.86	32.92	13.34	37.86	254	281	A	V
	*	5720	111.73	-	-	102.36	33.72	13.57	37.92	254	281	P	V
	*	5720	103.61	-	-	94.24	33.72	13.57	37.92	254	281	A	V
		5853.5	53.21	-14.99	68.2	43.36	34.11	13.69	37.95	254	281	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)
		11440	54.03	-19.97	74	37.66	39.02	19.89	42.54	199	208	P	H
		11440	44.09	-9.91	54	27.72	39.02	19.89	42.54	199	208	A	H
		13292	53.7	-20.3	74	35.56	39.79	21.5	43.15	-	-	P	H
		13292	44.71	-9.29	54	26.57	39.79	21.5	43.15	-	-	A	H
		14491	53.39	-20.61	74	35.29	39.89	22.4	44.19	-	-	P	H
		14491	44.44	-9.56	54	26.34	39.89	22.4	44.19	-	-	A	H
		17164	51.94	-16.26	68.2	34.44	38	24.15	44.65	-	-	P	H
		17967	55.94	-18.06	74	35.16	41.57	24.66	45.45	-	-	P	H
		17967	46.96	-7.04	54	26.18	41.57	24.66	45.45	-	-	A	H
													H
													H
802.11a CH 144 5720MHz													H
		11440	58.79	-15.21	74	42.42	39.02	19.89	42.54	209	152	P	V
		11440	46.84	-7.16	54	30.47	39.02	19.89	42.54	209	152	A	V
		13391	53.85	-20.15	74	35.47	39.98	21.57	43.17	-	-	P	V
		13391	44.88	-9.12	54	26.5	39.98	21.57	43.17	-	-	A	V
		14470	53.75	-20.25	74	35.68	39.87	22.38	44.18	-	-	P	V
		14470	44.69	-9.31	54	26.62	39.87	22.38	44.18	-	-	A	V
		17160	52.1	-16.1	68.2	34.59	38	24.15	44.64	-	-	P	V
		17989	55.61	-18.39	74	34.68	41.72	24.67	45.46	-	-	P	V
		17989	46.59	-7.41	54	25.66	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission above 18GHz

WIFI 802.11a (SHF @ 1m)

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)
		39780	52.02	-21.98	74	37.2	44.5	26.34	56.02	-	-	P	H
		39780	42.83	-11.17	54	28.01	44.5	26.34	56.02	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a													H
SHF		39494	52.73	-21.27	74	38.15	44.7	26.18	56.3	-	-	P	V
		39494	42.61	-11.39	54	28.03	44.7	26.18	56.3	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		37.76	23.81	-16.19	40	37.71	20.42	1.31	35.63	-	-	P	H
		111.48	24.73	-18.77	43.5	40.93	17.19	2.13	35.52	-	-	P	H
		149.31	28.54	-14.96	43.5	44.22	17.32	2.46	35.46	-	-	P	H
		600.36	31.48	-14.52	46	35.7	25.47	4.69	34.38	-	-	P	H
		721.61	39.66	-6.34	46	41.6	26.85	5.06	33.85	-	-	P	H
		947.62	35.73	-10.27	46	32.39	30.34	5.99	32.99	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		30.97	23.01	-16.99	40	33.57	23.9	1.2	35.66	-	-	P	V
		71.71	25.21	-14.79	40	46.71	12.35	1.74	35.59	-	-	P	V
		134.76	26.18	-17.32	43.5	41.92	17.43	2.34	35.51	-	-	P	V
		600.36	34.4	-11.6	46	38.62	25.47	4.69	34.38	-	-	P	V
		716.76	34.66	-11.34	46	36.85	26.65	5.03	33.87	-	-	P	V
		849.65	34.93	-11.07	46	33.88	28.76	5.62	33.33	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5145.86	60.02	-13.98	74	51.91	33.1	12.75	37.74	100	276	P	H
		5150	43.94	-10.06	54	35.82	33.1	12.76	37.74	100	276	A	H
	*	5180	105.99	-	-	97.89	33.04	12.81	37.75	100	276	P	H
	*	5180	97.17	-	-	89.07	33.04	12.81	37.75	100	276	A	H
802.11n													H
HT20													H
CH 36		5148.2	52.53	-21.47	74	44.42	33.1	12.75	37.74	365	53	P	V
5180MHz		5149.24	38.79	-15.21	54	30.68	33.1	12.75	37.74	365	53	A	V
	*	5180	99.84	-	-	91.74	33.04	12.81	37.75	365	53	P	V
	*	5180	92.14	-	-	84.04	33.04	12.81	37.75	365	53	A	V
													V
													V
		5045.76	52.08	-21.92	74	44.22	33.01	12.56	37.71	300	52	P	H
		5090.48	40.13	-13.87	54	32.13	33.08	12.64	37.72	300	52	A	H
	*	5220	106.23	-	-	98.19	32.92	12.89	37.77	300	52	P	H
	*	5220	98.95	-	-	90.91	32.92	12.89	37.77	300	52	A	H
802.11n		5402.88	52.29	-21.71	74	43.97	32.9	13.26	37.84	300	52	P	H
HT20		5396.72	39.14	-14.86	54	30.83	32.89	13.25	37.83	300	52	A	H
CH 44		5078	48.94	-25.06	74	40.98	33.06	12.62	37.72	382	58	P	V
5220MHz		5093.6	37.95	-16.05	54	29.93	33.09	12.65	37.72	382	58	A	V
	*	5220	101.37	-	-	93.33	32.92	12.89	37.77	382	58	P	V
	*	5220	94.29	-	-	86.25	32.92	12.89	37.77	382	58	A	V
		5454.12	48.71	-25.29	74	40.32	32.91	13.33	37.85	382	58	P	V
		5350.52	37.16	-16.84	54	29.12	32.7	13.16	37.82	382	58	A	V

		5056.16	52.24	-21.76	74	44.36	33.01	12.58	37.71	347	53	P	H
		5007.8	41.32	-12.68	54	33.45	33.08	12.48	37.69	347	53	A	H
	*	5240	107.88	-	-	99.89	32.84	12.93	37.78	347	53	P	H
	*	5240	100.32	-	-	92.33	32.84	12.93	37.78	347	53	A	H
802.11n		5439.84	55.21	-18.79	74	46.85	32.9	13.31	37.85	347	53	P	H
HT20		5433.96	40.9	-13.1	54	32.55	32.9	13.3	37.85	347	53	A	H
CH 48		5097.24	49.56	-24.44	74	41.55	33.09	12.65	37.73	400	58	P	V
5240MHz		5119.86	38.9	-15.1	54	30.83	33.1	12.7	37.73	400	58	A	V
	*	5240	106.36	-	-	98.37	32.84	12.93	37.78	400	58	P	V
	*	5240	99.35	-	-	91.36	32.84	12.93	37.78	400	58	A	V
		5397.28	50.09	-23.91	74	41.78	32.89	13.25	37.83	400	58	P	V
		5378.52	39.65	-14.35	54	31.45	32.81	13.22	37.83	400	58	A	V

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

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	51.52	-16.68	68.2	35.62	38.6	18.91	41.61	-	-	P	H
		12621	52.13	-21.87	74	35.13	39.34	20.91	43.25	-	-	P	H
		12621	41.23	-12.77	54	24.23	39.34	20.91	43.25	-	-	A	H
		13347	53.35	-20.65	74	35.07	39.89	21.55	43.16	-	-	P	H
		13347	42.55	-11.45	54	24.27	39.89	21.55	43.16	-	-	A	H
		15540	59.98	-14.02	74	43.68	37.98	23.1	44.78	100	237	P	H
		15540	50.69	-3.31	54	34.39	37.98	23.1	44.78	100	237	A	H
		17956	55.95	-18.05	74	35.25	41.49	24.65	45.44	-	-	P	H
		17956	46.03	-7.97	54	25.33	41.49	24.65	45.44	-	-	A	H
													H
802.11n													H
HT20													H
CH 36		10360	49.84	-18.36	68.2	33.64	38.6	19.21	41.61	-	-	P	V
5180MHz		12643	51.32	-22.68	74	33.79	39.39	21.38	43.24	-	-	P	V
		12643	42.1	-11.9	54	24.57	39.39	21.38	43.24	-	-	A	V
		13369	52.91	-21.09	74	34.05	39.94	22.09	43.17	-	-	P	V
		13369	43.21	-10.79	54	24.35	39.94	22.09	43.17	-	-	A	V
		15540	63.4	-10.6	74	46.68	37.98	23.52	44.78	101	121	P	V
		15540	53.63	-0.37	54	36.91	37.98	23.52	44.78	101	121	A	V
		17945	54.79	-19.21	74	34.1	41.41	24.71	45.43	-	-	P	V
		17945	46.02	-7.98	54	25.33	41.41	24.71	45.43	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	49.59	-18.61	68.2	33.73	38.56	18.99	41.69	-	-	P	H
		11400	52.06	-21.94	74	35.56	39.1	19.86	42.46	-	-	P	H
		11400	40.76	-13.24	54	24.26	39.1	19.86	42.46	-	-	A	H
		13369	52.4	-21.6	74	34.06	39.94	21.57	43.17	-	-	P	H
		13369	42.69	-11.31	54	24.35	39.94	21.57	43.17	-	-	A	H
		15660	62.03	-11.97	74	45.78	37.74	23.18	44.67	100	231	P	H
		15660	50.92	-3.08	54	34.67	37.74	23.18	44.67	100	231	A	H
		17967	55.15	-18.85	74	34.37	41.57	24.66	45.45	-	-	P	H
		17967	46.24	-7.76	54	25.46	41.57	24.66	45.45	-	-	A	H
													H
802.11n													H
HT20													H
CH 44		10440	50.57	-17.63	68.2	34.71	38.56	18.99	41.69	-	-	P	V
5220MHz		11433	52.73	-21.27	74	36.34	39.03	19.89	42.53	-	-	P	V
		11433	40.65	-13.35	54	24.26	39.03	19.89	42.53	-	-	A	V
		13259	52.71	-21.29	74	34.63	39.76	21.47	43.15	-	-	P	V
		13259	42.25	-11.75	54	24.17	39.76	21.47	43.15	-	-	A	V
		15660	63.63	-10.37	74	47.38	37.74	23.18	44.67	100	120	P	V
		15660	53.16	-0.84	54	36.91	37.74	23.18	44.67	100	120	A	V
		17978	55.66	-18.34	74	34.79	41.65	24.67	45.45	-	-	P	V
		17978	46.17	-7.83	54	25.3	41.65	24.67	45.45	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	50.14	-18.06	68.2	34.31	38.52	19.03	41.72	-	-	P	H
		11147	52.9	-21.1	74	36.43	38.75	19.67	41.95	-	-	P	H
		11147	40.83	-13.17	54	24.36	38.75	19.67	41.95	-	-	A	H
		13369	52.51	-21.49	74	34.17	39.94	21.57	43.17	-	-	P	H
		13369	43	-11	54	24.66	39.94	21.57	43.17	-	-	A	H
		15720	61.47	-12.53	74	45.22	37.64	23.22	44.61	100	232	P	H
		15720	50.62	-3.38	54	34.37	37.64	23.22	44.61	100	232	A	H
		17978	55.21	-18.79	74	34.34	41.65	24.67	45.45	-	-	P	H
		17978	46.3	-7.7	54	25.43	41.65	24.67	45.45	-	-	A	H
													H
802.11n													H
HT20													H
CH 48		10480	49.92	-18.28	68.2	33.79	38.52	19.33	41.72	-	-	P	V
5240MHz		12665	52.48	-21.52	74	34.88	39.43	21.4	43.23	-	-	P	V
		12665	41.87	-12.13	54	24.27	39.43	21.4	43.23	-	-	A	V
		13336	52.95	-21.05	74	34.18	39.87	22.06	43.16	-	-	P	V
		13336	43.38	-10.62	54	24.61	39.87	22.06	43.16	-	-	A	V
		15720	63.33	-10.67	74	46.68	37.64	23.62	44.61	103	120	P	V
		15720	53.32	-0.68	54	36.67	37.64	23.62	44.61	103	120	A	V
		17934	54.61	-19.39	74	33.99	41.34	24.7	45.42	-	-	P	V
		17934	46.13	-7.87	54	25.51	41.34	24.7	45.42	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5147.42	60.18	-13.82	74	52.07	33.1	12.75	37.74	100	269	P	H
		5148.98	51.51	-2.49	54	43.4	33.1	12.75	37.74	100	269	A	H
	*	5190	104.77	-	-	96.68	33.02	12.83	37.76	100	269	P	H
	*	5190	97.03	-	-	88.94	33.02	12.83	37.76	100	269	A	H
		5357.7	50.27	-23.73	74	42.19	32.73	13.17	37.82	100	269	P	H
		5374.8	50.83	-3.17	54	42.64	32.8	13.21	37.82	100	269	A	H
		5149.5	55.55	-18.45	74	47.44	33.1	12.75	37.74	328	38	P	V
		5148.98	47.11	-6.89	54	39	33.1	12.75	37.74	328	38	A	V
	*	5190	97.21	-	-	89.12	33.02	12.83	37.76	328	38	P	V
	*	5190	90.83	-	-	82.74	33.02	12.83	37.76	328	38	A	V
		5459.1	49.94	-24.06	74	41.54	32.92	13.34	37.86	328	38	P	V
		5423.4	41.38	-12.62	54	33.03	32.9	13.29	37.84	328	38	A	V
802.11n HT40 CH 46 5230MHz		5070.2	53.36	-20.64	74	45.44	33.04	12.6	37.72	100	55	P	H
		5069.94	44.23	-9.77	54	36.31	33.04	12.6	37.72	100	55	A	H
	*	5230	106.4	-	-	98.38	32.88	12.91	37.77	100	55	P	H
	*	5230	99.08	-	-	91.06	32.88	12.91	37.77	100	55	A	H
		5392.24	51.47	-22.53	74	43.19	32.87	13.24	37.83	100	55	P	H
		5412.4	53.88	-0.12	54	45.54	32.9	13.28	37.84	100	55	A	H
		5060.32	47.8	-26.2	74	39.91	33.02	12.58	37.71	383	59	P	V
		5018.46	40.9	-13.1	54	33.03	33.06	12.51	37.7	383	59	A	V
	*	5230	103.08	-	-	95.06	32.88	12.91	37.77	383	59	P	V
	*	5230	95.68	-	-	87.66	32.88	12.91	37.77	383	59	A	V
		5352.48	47.42	-26.58	74	39.37	32.71	13.16	37.82	383	59	P	V
		5441.24	43.35	-10.65	54	34.99	32.9	13.31	37.85	383	59	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	52.66	-15.54	68.2	36.76	38.6	18.93	41.63	100	152	P	H
		13402	53.25	-14.95	68.2	34.84	40	21.58	43.17	-	-	P	H
		13402	44.25	-9.75	54	25.84	40	21.58	43.17	-	-	A	H
		14499	53.98	-20.02	74	35.87	39.9	22.4	44.19	-	-	P	H
		14499	44.96	-9.04	54	26.85	39.9	22.4	44.19	-	-	A	H
		15570	56.76	-17.24	74	40.5	37.89	23.12	44.75	100	236	P	H
		15570	49.46	-4.54	54	33.2	37.89	23.12	44.75	100	236	A	H
		17934	56.05	-17.95	74	35.49	41.34	24.64	45.42	-	-	P	H
		17934	47.03	-6.97	54	26.47	41.34	24.64	45.42	-	-	A	H
													H
802.11n													H
HT40													H
CH 38		10380	52.28	-15.92	68.2	36.38	38.6	18.93	41.63	100	313	P	V
5190MHz		13391	53.13	-20.87	74	34.75	39.98	21.57	43.17	-	-	P	V
		13391	44.16	-9.84	54	25.78	39.98	21.57	43.17	-	-	A	V
		14499	53.73	-20.27	74	35.62	39.9	22.4	44.19	-	-	P	V
		14499	44.8	-9.2	54	26.69	39.9	22.4	44.19	-	-	A	V
		15570	59.19	-14.81	74	42.93	37.89	23.12	44.75	100	121	P	V
		15570	51.85	-2.15	54	35.59	37.89	23.12	44.75	100	121	A	V
		17912	55.91	-18.09	74	35.52	41.18	24.62	45.41	-	-	P	V
		17912	46.98	-7.02	54	26.59	41.18	24.62	45.41	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10460	56.11	-12.09	68.2	40.26	38.54	19.01	41.7	100	149	P	H
		13281	52.91	-21.09	74	34.79	39.78	21.49	43.15	-	-	P	H
		13281	43.88	-10.12	54	25.76	39.78	21.49	43.15	-	-	A	H
		14499	53.08	-20.92	74	34.97	39.9	22.4	44.19	-	-	P	H
		14499	44.08	-9.92	54	25.97	39.9	22.4	44.19	-	-	A	H
		15690	58.41	-15.59	74	42.14	37.71	23.2	44.64	100	234	P	H
		15690	51.6	-2.4	54	35.33	37.71	23.2	44.64	100	234	A	H
		17945	55.65	-18.35	74	35.02	41.41	24.65	45.43	-	-	P	H
		17945	46.67	-7.33	54	26.04	41.41	24.65	45.43	-	-	A	H
													H
802.11n													H
HT40													H
CH 46		10460	54.41	-13.79	68.2	38.56	38.54	19.01	41.7	100	308	P	V
5230MHz		13248	52.97	-15.23	68.2	34.89	39.75	21.47	43.14	-	-	P	V
		13248	43.93	-10.07	54	25.85	39.75	21.47	43.14	-	-	A	V
		14480	54.15	-19.85	74	36.07	39.88	22.39	44.19	-	-	P	V
		14480	45.11	-8.89	54	27.03	39.88	22.39	44.19	-	-	A	V
		15690	60.77	-13.23	74	44.5	37.71	23.2	44.64	100	120	P	V
		15690	53.61	-0.39	54	37.34	37.71	23.2	44.64	100	120	A	V
		17978	55.88	-18.12	74	35.01	41.65	24.67	45.45	-	-	P	V
		17978	46.95	-7.05	54	26.08	41.65	24.67	45.45	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5143.78	59.08	-14.92	74	50.98	33.1	12.74	37.74	301	14	P	H
		5150	53.69	-0.31	54	45.57	33.1	12.76	37.74	301	14	A	H
	*	5210	97	-	-	88.94	32.96	12.87	37.77	301	14	P	H
	*	5210	89.95	-	-	81.89	32.96	12.87	37.77	301	14	A	H
		5362.76	50.84	-23.16	74	42.73	32.75	13.18	37.82	301	14	P	H
		5420.74	49.12	-4.88	54	40.77	32.9	13.29	37.84	301	14	A	H
		5149.5	55.1	-18.9	74	46.99	33.1	12.75	37.74	320	53	P	V
		5150	51.2	-2.8	54	43.08	33.1	12.76	37.74	320	53	A	V
	*	5210	94.75	-	-	86.69	32.96	12.87	37.77	320	53	P	V
	*	5210	87.4	-	-	79.34	32.96	12.87	37.77	320	53	A	V
		5372.64	51.01	-22.99	74	42.84	32.79	13.2	37.82	320	53	P	V
		5408.52	47.05	-6.95	54	38.72	32.9	13.27	37.84	320	53	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	52.12	-16.08	68.2	36.24	38.58	18.97	41.67	100	22	P	H
		13270	52.92	-21.08	74	34.82	39.77	21.48	43.15	-	-	P	H
		13270	52.92	-1.08	54	34.82	39.77	21.48	43.15	-	-	A	H
		14471	53.04	-20.96	74	34.96	39.87	22.39	44.18	-	-	P	H
		14471	44.01	-9.99	54	25.93	39.87	22.39	44.18	-	-	A	H
		15630	51.78	-22.22	74	35.55	37.77	23.16	44.7	100	233	P	H
		15630	45.06	-8.94	54	28.83	37.77	23.16	44.7	100	233	A	H
		17923	55.77	-18.23	74	35.29	41.26	24.63	45.41	-	-	P	H
		17923	46.71	-7.29	54	26.23	41.26	24.63	45.41	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 42		10420	52.26	-15.94	68.2	36.38	38.58	18.97	41.67	100	308	P	V
5210MHz		13358	52.82	-21.18	74	34.5	39.92	21.56	43.16	-	-	P	V
		13358	52.82	-1.18	54	34.5	39.92	21.56	43.16	-	-	A	V
		14491	52.5	-21.5	74	34.4	39.89	22.4	44.19	-	-	P	V
		14491	43.53	-10.47	54	25.43	39.89	22.4	44.19	-	-	A	V
		15630	54.71	-19.29	74	38.48	37.77	23.16	44.7	100	121	P	V
		15630	47.58	-6.42	54	31.35	37.77	23.16	44.7	100	121	A	V
		17923	55.61	-18.39	74	35.13	41.26	24.63	45.41	-	-	P	V
		17923	46.62	-7.38	54	26.14	41.26	24.63	45.41	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5087.04	52.31	-21.69	74	44.32	33.07	12.64	37.72	100	56	P	H
		5133.96	41.09	-12.91	54	33.01	33.1	12.72	37.74	100	56	A	H
	*	5260	108.43	-	-	100.4	32.84	12.97	37.78	100	56	P	H
	*	5260	100.83	-	-	92.8	32.84	12.97	37.78	100	56	A	H
802.11n		5422.8	53.59	-20.41	74	45.24	32.9	13.29	37.84	100	56	P	H
HT20		5360.16	41.71	-12.29	54	33.61	32.74	13.18	37.82	100	56	A	H
CH 52		5112.54	48.72	-25.28	74	40.67	33.1	12.68	37.73	397	59	P	V
5260MHz		5127.16	38.07	-15.93	54	30	33.1	12.71	37.74	397	59	A	V
	*	5260	103.36	-	-	95.33	32.84	12.97	37.78	397	59	P	V
	*	5260	96.33	-	-	88.3	32.84	12.97	37.78	397	59	A	V
		5406.24	48.13	-25.87	74	39.8	32.9	13.27	37.84	397	59	P	V
		5393.04	37.83	-16.17	54	29.54	32.87	13.25	37.83	397	59	A	V
		5009.18	54.28	-19.72	74	46.4	33.08	12.49	37.69	100	285	P	H
		5031.62	41.84	-12.16	54	33.97	33.04	12.53	37.7	100	285	A	H
	*	5300	111.86	-	-	103.6	33	13.06	37.8	100	285	P	H
	*	5300	103.69	-	-	95.43	33	13.06	37.8	100	285	A	H
802.11n		5350.8	60.87	-13.13	74	52.83	32.7	13.16	37.82	100	285	P	H
HT20		5354.64	45.09	-8.91	54	37.02	32.72	13.17	37.82	100	285	A	H
CH 60		5112.2	49.49	-24.51	74	41.44	33.1	12.68	37.73	352	54	P	V
5300MHz		5133.28	38.47	-15.53	54	30.39	33.1	12.72	37.74	352	54	A	V
	*	5300	107.03	-	-	98.77	33	13.06	37.8	352	54	P	V
	*	5300	99.88	-	-	91.62	33	13.06	37.8	352	54	A	V
		5400.72	50.08	-23.92	74	41.75	32.9	13.26	37.83	352	54	P	V
		5408.4	39.36	-14.64	54	31.03	32.9	13.27	37.84	352	54	A	V

	*	5320	110.97	-	-	102.8	32.88	13.1	37.81	100	282	P	H
	*	5320	102.81	-	-	94.64	32.88	13.1	37.81	100	282	A	H
		5354.56	65.8	-8.2	74	57.73	32.72	13.17	37.82	100	282	P	H
		5350.08	47.62	-6.38	54	39.58	32.7	13.16	37.82	100	282	A	H
802.11n													H
HT20													H
CH 64	*	5320	103.67	-	-	95.5	32.88	13.1	37.81	360	64	P	V
5320MHz	*	5320	96.41	-	-	88.24	32.88	13.1	37.81	360	64	A	V
		5350.56	61.23	-12.77	74	53.19	32.7	13.16	37.82	360	64	P	V
		5350.08	42.47	-11.53	54	34.43	32.7	13.16	37.82	360	64	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	52.41	-15.79	68.2	36.52	38.56	19.07	41.74	-	-	P	H
		12665	51.69	-22.31	74	34.53	39.43	20.96	43.23	-	-	P	H
		12665	41.46	-12.54	54	24.3	39.43	20.96	43.23	-	-	A	H
		13270	53.03	-20.97	74	34.93	39.77	21.48	43.15	-	-	P	H
		13270	42.29	-11.71	54	24.19	39.77	21.48	43.15	-	-	A	H
		15780	63.02	-10.98	74	46.86	37.46	23.25	44.55	100	237	P	H
		15780	51.87	-2.13	54	35.71	37.46	23.25	44.55	100	237	A	H
		17901	54.83	-19.17	74	34.5	41.11	24.62	45.4	-	-	P	H
		17901	45.87	-8.13	54	25.54	41.11	24.62	45.4	-	-	A	H
													H
802.11n													H
HT20													H
CH 52		10520	52.62	-15.58	68.2	36.73	38.56	19.07	41.74	-	-	P	V
5260MHz		12665	51.99	-22.01	74	34.83	39.43	20.96	43.23	-	-	P	V
		12665	41.42	-12.58	54	24.26	39.43	20.96	43.23	-	-	A	V
		13369	53.05	-20.95	74	34.71	39.94	21.57	43.17	-	-	P	V
		13369	42.74	-11.26	54	24.4	39.94	21.57	43.17	-	-	A	V
		15780	63.46	-10.54	74	47.3	37.46	23.25	44.55	104	121	P	V
		15780	53.68	-0.32	54	37.52	37.46	23.25	44.55	104	121	A	V
		17956	53.92	-20.08	74	33.22	41.49	24.65	45.44	-	-	P	V
		17956	45.96	-8.04	54	25.26	41.49	24.65	45.44	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	58.11	-15.89	74	41.88	38.8	19.15	41.72	100	1	P	H
		10600	48.11	-5.89	54	31.88	38.8	19.15	41.72	100	1	A	H
		12368	51.72	-22.28	74	35.25	39.03	20.67	43.23	-	-	P	H
		12368	40.72	-13.28	54	24.25	39.03	20.67	43.23	-	-	A	H
		13314	52.85	-21.15	74	34.66	39.83	21.52	43.16	-	-	P	H
		13314	42.65	-11.35	54	24.46	39.83	21.52	43.16	-	-	A	H
		15900	61.46	-12.54	74	45.18	37.4	23.32	44.44	100	230	P	H
		15900	51.87	-2.13	54	35.59	37.4	23.32	44.44	100	230	A	H
		17956	56.19	-17.81	74	35.49	41.49	24.65	45.44	-	-	P	H
		17956	46.16	-7.84	54	25.46	41.49	24.65	45.44	-	-	A	H
802.11n													H
HT20													H
CH 60		10600	60.9	-13.1	74	44.67	38.8	19.15	41.72	100	168	A	V
5300MHz		10600	49.65	-4.35	54	33.42	38.8	19.15	41.72	100	168	A	V
		12511	52.01	-21.99	74	35.29	39.21	20.81	43.3	-	-	P	V
		12511	41.08	-12.92	54	24.36	39.21	20.81	43.3	-	-	A	V
		13358	52.4	-21.6	74	34.08	39.92	21.56	43.16	-	-	P	V
		13358	42.82	-11.18	54	24.5	39.92	21.56	43.16	-	-	A	V
		15900	61.97	-12.03	74	45.69	37.4	23.32	44.44	108	120	P	V
		15900	53.01	-0.99	54	36.73	37.4	23.32	44.44	108	120	A	V
		17945	55.35	-18.65	74	34.72	41.41	24.65	45.43	-	-	P	V
		17945	46.16	-7.84	54	25.53	41.41	24.65	45.43	-	-	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10640	59.25	-14.75	74	42.94	38.84	42.94	41.72	100	7	P	H
		10640	49.19	-4.81	54	32.88	38.84	32.88	41.72	100	7	A	H
		13270	53.17	-20.83	74	35.07	39.77	35.07	43.15	-	-	P	H
		13270	44.12	-9.88	54	26.02	39.77	26.02	43.15	-	-	A	H
		14480	52.77	-21.23	74	34.69	39.88	34.69	44.19	-	-	P	H
		14480	43.75	-10.25	54	25.67	39.88	25.67	44.19	-	-	A	H
		15960	58.12	-15.88	74	41.62	37.52	41.62	44.38	100	231	P	H
		15960	49.63	-4.37	54	33.13	37.52	33.13	44.38	100	231	A	H
		17945	55.62	-18.38	74	34.99	41.41	34.99	45.43	-	-	P	H
		17945	46.59	-7.41	54	25.96	41.41	25.96	45.43	-	-	A	H
802.11n													H
HT20													H
CH 64		10640	60.41	-13.59	74	44.1	38.84	44.1	41.72	100	173	A	V
5320MHz		10640	50.85	-3.15	54	34.54	38.84	34.54	41.72	100	173	A	V
		13248	52.33	-15.87	68.2	34.25	39.75	34.25	43.14	-	-	P	V
		13248	43.33	-10.67	54	25.25	39.75	25.25	43.14	-	-	A	V
		14500	52.7	-21.3	74	34.59	39.9	34.59	44.19	-	-	P	V
		14500	43.65	-10.35	54	25.54	39.9	25.54	44.19	-	-	A	V
		15960	57.93	-16.07	74	41.43	37.52	41.43	44.38	100	237	P	V
		15960	48.77	-5.23	54	32.27	37.52	32.27	44.38	100	237	A	V
		18000	55.79	-18.21	74	34.78	41.8	34.78	45.47	-	-	P	V
		18000	46.78	-7.22	54	25.77	41.8	25.77	45.47	-	-	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5118.32	51.29	-22.71	74	43.23	33.1	12.69	37.73	252	31	P	H
		5024.48	47.57	-6.43	54	39.7	33.05	12.52	37.7	252	31	A	H
	*	5270	105.15	-	-	97.07	32.88	12.99	37.79	252	31	P	H
	*	5270	98.3	-	-	90.22	32.88	12.99	37.79	252	31	A	H
		5356.08	54.56	-19.44	74	46.49	32.72	13.17	37.82	252	31	P	H
		5413.44	49.74	-4.26	54	41.4	32.9	13.28	37.84	252	31	A	H
		5140.76	56.19	-17.81	74	48.09	33.1	12.74	37.74	261	298	P	V
		5103.7	50.17	-3.83	54	42.13	33.1	12.67	37.73	261	298	A	V
	*	5270	106.77	-	-	98.69	32.88	12.99	37.79	261	298	P	V
	*	5270	98.98	-	-	90.9	32.88	12.99	37.79	261	298	A	V
		5387.52	56.87	-17.13	74	48.62	32.85	13.23	37.83	261	298	P	V
		5354.64	50.37	-3.63	54	42.3	32.72	13.17	37.82	261	298	A	V
802.11n HT40 CH 62 5310MHz		5138.38	50.52	-23.48	74	42.43	33.1	12.73	37.74	238	25	P	H
		5035.36	46.29	-7.71	54	38.42	33.03	12.54	37.7	238	25	A	H
	*	5310	105.56	-	-	97.34	32.94	13.08	37.8	238	25	P	H
	*	5310	97.52	-	-	89.3	32.94	13.08	37.8	238	25	A	H
		5352	59.86	-14.14	74	51.81	32.71	13.16	37.82	238	25	P	H
		5364.48	51.18	-2.82	54	43.05	32.76	13.19	37.82	238	25	A	H
		5028.56	51.92	-22.08	74	44.06	33.04	12.52	37.7	239	294	P	V
		5028.56	47.65	-6.35	54	39.79	33.04	12.52	37.7	239	294	A	V
	*	5310	105.15	-	-	96.93	32.94	13.08	37.8	239	294	P	V
	*	5310	97.37	-	-	89.15	32.94	13.08	37.8	239	294	A	V
		5350.56	63.9	-10.1	74	55.86	32.7	13.16	37.82	239	294	P	V
		5365.92	50.88	-3.12	54	42.75	32.76	13.19	37.82	239	294	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	53.8	-14.4	68.2	37.82	38.62	19.09	41.73	100	314	P	H
		13325	53.43	-20.57	74	35.21	39.85	21.53	43.16	-	-	P	H
		13325	44.45	-9.55	54	26.23	39.85	21.53	43.16	-	-	A	H
		14491	53.03	-20.97	74	34.93	39.89	22.4	44.19	-	-	P	H
		14491	44.04	-9.96	54	25.94	39.89	22.4	44.19	-	-	A	H
		15810	57.66	-16.34	74	41.51	37.4	23.27	44.52	100	233	P	H
		15810	50.94	-3.06	54	34.79	37.4	23.27	44.52	100	233	A	H
		17934	55.71	-18.29	74	35.15	41.34	24.64	45.42	-	-	P	H
		17934	46.69	-7.31	54	26.13	41.34	24.64	45.42	-	-	A	H
													H
802.11n													H
HT40													H
CH 54		10540	54.91	-13.29	68.2	38.93	38.62	19.09	41.73	100	151	P	V
5270MHz		13391	52.47	-21.53	74	34.09	39.98	21.57	43.17	-	-	P	V
		13391	43.57	-10.43	54	25.19	39.98	21.57	43.17	-	-	A	V
		14491	52.62	-21.38	74	34.52	39.89	22.4	44.19	-	-	P	V
		14491	43.64	-10.36	54	25.54	39.89	22.4	44.19	-	-	A	V
		15810	58.59	-15.41	74	42.44	37.4	23.27	44.52	100	122	P	V
		15810	51.78	-2.22	54	35.63	37.4	23.27	44.52	100	122	A	V
		18000	56.33	-17.67	74	35.32	41.8	24.68	45.47	-	-	P	V
		18000	47.39	-6.61	54	26.38	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10620	53.91	-20.09	74	37.64	38.82	19.17	41.72	100	359	P	H
		10620	44.54	-9.46	54	28.27	38.82	19.17	41.72	100	359	A	H
		13292	52.31	-21.69	74	34.17	39.79	21.5	43.15	-	-	P	H
		13292	43.3	-10.7	54	25.16	39.79	21.5	43.15	-	-	A	H
		14480	52.9	-21.1	74	34.82	39.88	22.39	44.19	-	-	P	H
		14480	43.96	-10.04	54	25.88	39.88	22.39	44.19	-	-	A	H
		15930	56.2	-17.8	74	39.81	37.46	23.34	44.41	100	231	P	H
		15930	48.32	-5.68	54	31.93	37.46	23.34	44.41	100	231	A	H
		17956	55.97	-18.03	74	35.27	41.49	24.65	45.44	-	-	P	H
		17956	46.97	-7.03	54	26.27	41.49	24.65	45.44	-	-	A	H
802.11n													H
HT40													H
CH 62		10620	54.96	-19.04	74	38.69	38.82	19.17	41.72	100	168	P	V
5310MHz		10620	46.13	-7.87	54	29.86	38.82	19.17	41.72	100	168	A	V
		13281	52.06	-21.94	74	33.94	39.78	21.49	43.15	-	-	P	V
		13281	43	-11	54	24.88	39.78	21.49	43.15	-	-	A	V
		14480	52.95	-21.05	74	34.87	39.88	22.39	44.19	-	-	P	V
		14480	43.95	-10.05	54	25.87	39.88	22.39	44.19	-	-	A	V
		15930	56.43	-17.57	74	40.04	37.46	23.34	44.41	100	123	P	V
		15930	47.76	-6.24	54	31.37	37.46	23.34	44.41	100	123	A	V
		17978	55.09	-18.91	74	34.22	41.65	24.67	45.45	-	-	P	V
		17978	46.14	-7.86	54	25.27	41.65	24.67	45.45	-	-	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5148.8	53.7	-20.3	74	45.59	33.1	12.75	37.74	310	16	P	H
		5027.6	47.48	-6.52	54	39.62	33.04	12.52	37.7	310	16	A	H
	*	5290	99.47	-	-	91.27	32.96	13.03	37.79	310	16	P	H
	*	5290	92.48	-	-	84.28	32.96	13.03	37.79	310	16	A	H
		5350.08	58.15	-15.85	74	50.11	32.7	13.16	37.82	310	16	P	H
		5350.08	52.42	-1.58	54	44.38	32.7	13.16	37.82	310	16	A	H
		5075	53.6	-20.4	74	45.66	33.05	12.61	37.72	234	58	P	V
		5108.6	46.39	-7.61	54	38.34	33.1	12.68	37.73	234	58	A	V
	*	5290	98.48	-	-	90.28	32.96	13.03	37.79	234	58	P	V
	*	5290	92.44	-	-	84.24	32.96	13.03	37.79	234	58	A	V
		5364	57.26	-16.74	74	49.13	32.76	13.19	37.82	234	58	P	V
		5356.8	53.62	-0.38	54	45.54	32.73	13.17	37.82	234	58	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	50.12	-18.08	68.2	33.98	38.74	19.13	41.73	-	-	P	H
		13303	51.98	-22.02	74	33.81	39.81	21.51	43.15	-	-	P	H
		13303	42.99	-11.01	54	24.82	39.81	21.51	43.15	-	-	A	H
		14499	52.97	-21.03	74	34.86	39.9	22.4	44.19	-	-	P	H
		14499	43.94	-10.06	54	25.83	39.9	22.4	44.19	-	-	A	H
		15870	52.72	-21.28	74	36.47	37.4	23.31	44.46	100	34	P	H
		15870	45.62	-8.38	54	29.37	37.4	23.31	44.46	100	34	A	H
		17945	55.66	-18.34	74	35.03	41.41	24.65	45.43	-	-	P	H
		17945	46.81	-7.19	54	26.18	41.41	24.65	45.43	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 58		10580	50.65	-17.55	68.2	34.51	38.74	19.13	41.73	-	-	P	V
5290MHz		13292	52.72	-21.28	74	34.58	39.79	21.5	43.15	-	-	P	V
		13292	43.66	-10.34	54	25.52	39.79	21.5	43.15	-	-	A	V
		14499	52.75	-21.25	74	34.64	39.9	22.4	44.19	-	-	P	V
		14499	43.78	-10.22	54	25.67	39.9	22.4	44.19	-	-	A	V
		15870	52.46	-21.54	74	36.21	37.4	23.31	44.46	100	21	P	V
		15870	44.98	-9.02	54	28.73	37.4	23.31	44.46	100	21	A	V
		17956	55.74	-18.26	74	35.04	41.49	24.65	45.44	-	-	P	V
		17956	46.84	-7.16	54	26.14	41.49	24.65	45.44	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5457.2	63.67	-10.33	74	55.28	32.91	13.33	37.85	100	300	P	H
		5470	66.06	-2.14	68.2	57.63	32.94	13.35	37.86	100	300	P	H
		5459.28	44.37	-9.63	54	35.97	32.92	13.34	37.86	100	300	A	H
	*	5500	110.81	-	-	102.29	33	13.39	37.87	100	300	P	H
802.11n	*	5500	103.49	-	-	94.97	33	13.39	37.87	100	300	A	H
HT20													H
CH 100		5457.84	49.03	-24.97	74	40.62	32.92	13.34	37.85	346	57	P	V
5500MHz		5466.8	57.87	-10.33	68.2	49.45	32.93	13.35	37.86	346	57	P	V
		5457.04	39.79	-14.21	54	31.4	32.91	13.33	37.85	346	57	A	V
	*	5500	104.94	-	-	96.42	33	13.39	37.87	346	57	P	V
	*	5500	97.81	-	-	89.29	33	13.39	37.87	346	57	A	V
													V
		5394.64	51.34	-22.66	74	43.04	32.88	13.25	37.83	100	300	P	H
		5467.36	51.51	-16.69	68.2	43.09	32.93	13.35	37.86	100	300	P	H
		5458.72	40.72	-13.28	54	32.32	32.92	13.34	37.86	100	300	A	H
	*	5580	111.43	-	-	102.75	33.08	13.49	37.89	100	300	P	H
802.11n	*	5580	104.2	-	-	95.52	33.08	13.49	37.89	100	300	A	H
HT20		5758.7	52.04	-16.16	68.2	42.47	33.92	13.58	37.93	100	300	P	H
CH 116		5455.84	47.45	-26.55	74	39.06	32.91	13.33	37.85	351	338	P	V
5580MHz		5460.64	47.05	-21.15	68.2	38.65	32.92	13.34	37.86	351	338	P	V
		5439.04	37.65	-16.35	54	29.29	32.9	13.31	37.85	351	338	A	V
	*	5580	105.94	-	-	97.26	33.08	13.49	37.89	351	338	P	V
	*	5580	98.53	-	-	89.85	33.08	13.49	37.89	351	338	A	V
		5743.895	49.5	-18.7	68.2	39.98	33.86	13.58	37.92	351	338	P	V

	*	5700	111.12	-	-	101.87	33.6	13.56	37.91	100	293	P	H
	*	5700	103.22	-	-	93.97	33.6	13.56	37.91	100	293	A	H
		5725.56	66.02	-2.18	68.2	56.62	33.75	13.57	37.92	100	293	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	101.56	-	-	92.31	33.6	13.56	37.91	351	333	P	V
5700MHz	*	5700	94.25	-	-	85	33.6	13.56	37.91	351	333	A	V
		5727.08	59.76	-8.44	68.2	50.35	33.76	13.57	37.92	351	333	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	63.82	-10.18	74	47.23	38.7	19.55	41.66	100	7	P	H
		11000	52.83	-1.17	54	36.24	38.7	19.55	41.66	100	7	A	H
		11917	51.86	-22.14	74	35.64	38.92	20.27	42.97	-	-	P	H
		11917	40.55	-13.45	54	24.33	38.92	20.27	42.97	-	-	A	H
		13281	52.09	-21.91	74	33.97	39.78	21.49	43.15	-	-	P	H
		13281	42.25	-11.75	54	24.13	39.78	21.49	43.15	-	-	A	H
		16500	53.49	-14.71	68.2	35.95	38.2	23.72	44.38	-	-	P	H
		17989	54.87	-19.13	74	33.94	41.72	24.67	45.46	-	-	P	H
		17989	46.19	-7.81	54	25.26	41.72	24.67	45.46	-	-	A	H
													H
802.11n													H
HT20													H
CH 100		11000	64.81	-9.19	74	48.22	38.7	19.55	41.66	244	332	P	V
5500MHz		11000	53.16	-0.84	54	36.57	38.7	19.55	41.66	244	332	A	V
		12291	52.2	-21.8	74	35.67	39.11	20.61	43.19	-	-	P	V
		12291	40.8	-13.2	54	24.27	39.11	20.61	43.19	-	-	A	V
		13358	52.65	-21.35	74	34.33	39.92	21.56	43.16	-	-	P	V
		13358	42.52	-11.48	54	24.2	39.92	21.56	43.16	-	-	A	V
		16500	56.52	-11.68	68.2	38.98	38.2	23.72	44.38	-	-	P	V
		17989	55.65	-18.35	74	34.72	41.72	24.67	45.46	-	-	P	V
		17989	46.19	-7.81	54	25.26	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	61.78	-12.22	74	45.32	38.76	19.68	41.98	104	3	P	H
		11160	51.12	-2.88	54	34.66	38.76	19.68	41.98	104	3	A	H
		12313	53.35	-20.65	74	36.84	39.09	20.62	43.2	-	-	P	H
		12313	40.86	-13.14	54	24.35	39.09	20.62	43.2	-	-	A	H
		13355	52.51	-21.49	74	34.21	39.91	21.55	43.16	-	-	P	H
		13355	42.56	-11.44	54	24.26	39.91	21.55	43.16	-	-	A	H
		16740	54.41	-13.79	68.2	36.71	38.22	23.88	44.4	-	-	P	H
		17956	55.31	-18.69	74	34.61	41.49	24.65	45.44	-	-	P	H
		17956	45.96	-8.04	54	25.26	41.49	24.65	45.44	-	-	A	H
													H
802.11n													H
HT20													H
CH 116		11160	61.82	-12.18	74	45.36	38.76	19.68	41.98	253	333	P	V
5580MHz		11160	51.49	-2.51	54	35.03	38.76	19.68	41.98	253	333	A	V
		12170	51.92	-22.08	74	35.35	39.2	20.49	43.12	-	-	P	V
		12170	41.1	-12.9	54	24.53	39.2	20.49	43.12	-	-	A	V
		13391	53.31	-20.69	74	34.93	39.98	21.57	43.17	-	-	P	V
		13391	43	-11	54	24.62	39.98	21.57	43.17	-	-	A	V
		16740	56.46	-11.74	68.2	38.76	38.22	23.88	44.4	-	-	P	V
		18000	55.03	-18.97	74	34.02	41.8	24.68	45.47	-	-	P	V
		18000	46.63	-7.37	54	25.62	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	55.64	-18.36	74	39.14	39.1	19.86	42.46	241	158	P	H
		11400	45.34	-8.66	54	28.84	39.1	19.86	42.46	241	158	A	H
		13391	52.28	-21.72	74	33.9	39.98	21.57	43.17	-	-	P	H
		13391	43.31	-10.69	54	24.93	39.98	21.57	43.17	-	-	A	H
		14491	52.77	-21.23	74	34.67	39.89	22.4	44.19	-	-	P	H
		14491	43.74	-10.26	54	25.64	39.89	22.4	44.19	-	-	A	H
		17100	55.73	-12.47	68.2	38.18	38	24.11	44.56	100	30	P	H
		18000	55.2	-18.8	74	34.19	41.8	24.68	45.47	-	-	P	H
		18000	46.18	-7.82	54	25.17	41.8	24.68	45.47	-	-	A	H
													H
802.11n													H
HT20													H
CH 140		11400	56.08	-17.92	74	39.58	39.1	19.86	42.46	100	239	P	V
5700MHz		11400	46	-8	54	29.5	39.1	19.86	42.46	100	239	A	V
		13281	53.48	-20.52	74	35.36	39.78	21.49	43.15	-	-	P	V
		13281	43.5	-10.5	54	25.38	39.78	21.49	43.15	-	-	A	V
		14491	55.59	-18.41	74	37.49	39.89	22.4	44.19	-	-	P	V
		14491	45.54	-8.46	54	27.44	39.89	22.4	44.19	-	-	A	V
		17100	57.91	-10.29	68.2	40.36	38	24.11	44.56	100	20	P	V
		17956	56.79	-17.21	74	36.09	41.49	24.65	45.44	-	-	P	V
		17956	46.82	-7.18	54	26.12	41.49	24.65	45.44	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.24	62.26	-11.74	74	53.85	32.92	13.34	37.85	100	298	P	H
		5464.24	66.1	-2.1	68.2	57.69	32.93	13.34	37.86	100	298	P	H
		5453.68	51.1	-2.9	54	42.71	32.91	13.33	37.85	100	298	A	H
	*	5510	107.14	-	-	98.63	32.98	13.4	37.87	100	298	P	H
802.11n	*	5510	100.17	-	-	91.66	32.98	13.4	37.87	100	298	A	H
HT40		5748.62	51.91	-16.29	68.2	42.36	33.89	13.58	37.92	100	298	P	H
CH 102		5450.56	57.3	-16.7	74	48.92	32.9	13.33	37.85	393	52	P	V
5510MHz		5466.88	60.86	-7.34	68.2	52.44	32.93	13.35	37.86	393	52	P	V
		5452	46.74	-7.26	54	38.36	32.9	13.33	37.85	393	52	A	V
	*	5510	99.62	-	-	91.11	32.98	13.4	37.87	393	52	P	V
	*	5510	92.42	-	-	83.91	32.98	13.4	37.87	393	52	A	V
		5726.885	48.59	-19.61	68.2	39.18	33.76	13.57	37.92	393	52	P	V
		5439.76	53.47	-20.53	74	45.11	32.9	13.31	37.85	102	22	P	H
		5469.76	54.17	-14.03	68.2	45.74	32.94	13.35	37.86	102	22	P	H
		5440	45.6	-8.4	54	37.24	32.9	13.31	37.85	102	22	A	H
	*	5550	107.25	-	-	98.78	32.9	13.45	37.88	102	22	P	H
802.11n	*	5550	99.87	-	-	91.4	32.9	13.45	37.88	102	22	A	H
HT40		5762.165	49.63	-18.57	68.2	40.06	33.92	13.58	37.93	102	22	P	H
CH 110		5443.12	49.85	-24.15	74	41.48	32.9	13.32	37.85	388	58	P	V
5550MHz		5464.72	50.73	-17.47	68.2	42.32	32.93	13.34	37.86	388	58	P	V
		5454.16	42.07	-11.93	54	33.68	32.91	13.33	37.85	388	58	A	V
	*	5550	99.38	-	-	90.91	32.9	13.45	37.88	388	58	P	V
	*	5550	92.03	-	-	83.56	32.9	13.45	37.88	388	58	A	V
		5725.31	49.5	-18.7	68.2	40.1	33.75	13.57	37.92	388	58	P	V

		5407.4	51.6	-22.4	74	43.27	32.9	13.27	37.84	100	290	P	H
		5469.35	50.97	-17.23	68.2	42.54	32.94	13.35	37.86	100	290	P	H
		5427.35	42.85	-11.15	54	34.49	32.9	13.3	37.84	100	290	A	H
	*	5670	108.48	-	-	99.48	33.36	13.55	37.91	100	290	P	H
802.11n	*	5670	100.52	-	-	91.52	33.36	13.55	37.91	100	290	A	H
HT40		5725.45	65.39	-2.81	68.2	55.99	33.75	13.57	37.92	100	290	P	H
CH 134		5456.4	48.97	-25.03	74	40.58	32.91	13.33	37.85	390	59	P	V
5670MHz		5468.3	48.3	-19.9	68.2	39.87	32.94	13.35	37.86	390	59	P	V
		5449.75	40.73	-13.27	54	32.36	32.9	13.32	37.85	390	59	A	V
	*	5670	97.94	-	-	88.94	33.36	13.55	37.91	390	59	P	V
	*	5670	90.24	-	-	81.24	33.36	13.55	37.91	390	59	A	V
		5725	57	-11.2	68.2	47.6	33.75	13.57	37.92	390	59	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	58.44	-15.56	74	41.87	38.7	19.57	41.7	243	156	P	H
		11020	49.67	-4.33	54	33.1	38.7	19.57	41.7	243	156	A	H
		13369	52.53	-21.47	74	34.19	39.94	21.57	43.17	-	-	P	H
		13369	43.49	-10.51	54	25.15	39.94	21.57	43.17	-	-	A	H
		14491	52.87	-21.13	74	34.77	39.89	22.4	44.19	-	-	P	H
		14491	43.9	-10.1	54	25.8	39.89	22.4	44.19	-	-	A	H
		16530	54.12	-14.08	68.2	36.59	38.17	23.74	44.38	100	32	P	H
		17978	55.25	-18.75	74	34.38	41.65	24.67	45.45	-	-	P	H
		17978	46.22	-7.78	54	25.35	41.65	24.67	45.45	-	-	A	H
													H
802.11n													H
HT40													H
CH 102		11020	60.67	-13.33	74	44.1	38.7	19.57	41.7	251	333	P	V
5510MHz		11020	50.24	-3.76	54	33.67	38.7	19.57	41.7	251	333	A	V
		13380	52.14	-21.86	74	33.78	39.96	21.57	43.17	-	-	P	V
		13380	43.13	-10.87	54	24.77	39.96	21.57	43.17	-	-	A	V
		14491	53.98	-20.02	74	35.88	39.89	22.4	44.19	-	-	P	V
		14491	44.93	-9.07	54	26.83	39.89	22.4	44.19	-	-	A	V
		16530	55.51	-12.69	68.2	37.98	38.17	23.74	44.38	100	23	P	V
		17989	55.24	-18.76	74	34.31	41.72	24.67	45.46	-	-	P	V
		17989	46.25	-7.75	54	25.32	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11100	59.15	-14.85	74	42.68	38.7	19.63	41.86	251	158	P	H
		11100	49.87	-4.13	54	33.4	38.7	19.63	41.86	251	158	A	H
		13402	52.61	-15.59	68.2	34.2	40	21.58	43.17	-	-	P	H
		13402	43.64	-10.36	54	25.23	40	21.58	43.17	-	-	A	H
		14491	53.41	-20.59	74	35.31	39.89	22.4	44.19	-	-	P	H
		14491	44.49	-9.51	54	26.39	39.89	22.4	44.19	-	-	A	H
		16650	54.51	-13.69	68.2	36.88	38.2	23.82	44.39	100	31	P	H
		17978	55.65	-18.35	74	34.78	41.65	24.67	45.45	-	-	P	H
		17978	46.63	-7.37	54	25.76	41.65	24.67	45.45	-	-	A	H
													H
802.11n													H
HT40													H
CH 110		11100	59.3	-14.7	74	42.83	38.7	19.63	41.86	248	333	P	V
5550MHz		11100	50.1	-3.9	54	33.63	38.7	19.63	41.86	248	333	A	V
		13380	52.52	-21.48	74	34.16	39.96	21.57	43.17	-	-	P	V
		13380	43.54	-10.46	54	25.18	39.96	21.57	43.17	-	-	A	V
		14471	52.49	-21.51	74	34.41	39.87	22.39	44.18	-	-	P	V
		14471	43.54	-10.46	54	25.46	39.87	22.39	44.18	-	-	A	V
		16650	56.01	-12.19	68.2	38.38	38.2	23.82	44.39	100	22	P	V
		18000	54.94	-19.06	74	33.93	41.8	24.68	45.47	-	-	P	V
		18000	46	-8	54	24.99	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11340	52.64	-21.36	74	36.18	38.98	19.82	42.34	100	144	P	H
		11340	44.65	-9.35	54	28.19	38.98	19.82	42.34	100	144	A	H
		13380	52.73	-21.27	74	34.37	39.96	21.57	43.17	-	-	P	H
		13380	43.68	-10.32	54	25.32	39.96	21.57	43.17	-	-	A	H
		14499	52.81	-21.19	74	34.7	39.9	22.4	44.19	-	-	P	H
		14499	43.88	-10.12	54	25.77	39.9	22.4	44.19	-	-	A	H
		17010	53.46	-14.74	68.2	35.74	38.09	24.06	44.43	100	28	P	H
		17879	55.72	-18.28	74	35.59	40.91	24.6	45.38	-	-	P	H
		17879	46.66	-7.34	54	26.53	40.91	24.6	45.38	-	-	A	H
													H
i802.11n													H
HT40													H
CH 134		11340	52.02	-21.98	74	35.56	38.98	19.82	42.34	100	311	P	V
5670MHz		11340	43.98	-10.02	54	27.52	38.98	19.82	42.34	100	311	A	V
		13281	52.98	-21.02	74	34.86	39.78	21.49	43.15	-	-	P	V
		13281	43.95	-10.05	54	25.83	39.78	21.49	43.15	-	-	A	V
		14500	53.85	-20.15	74	35.74	39.9	22.4	44.19	-	-	P	V
		14500	44.83	-9.17	54	26.72	39.9	22.4	44.19	-	-	A	V
		17010	56.48	-11.72	68.2	38.76	38.09	24.06	44.43	100	25	P	V
		17890	55.49	-18.51	74	35.26	41.01	24.61	45.39	-	-	P	V
		17890	46.51	-7.49	54	26.28	41.01	24.61	45.39	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5454.16	58.54	-15.46	74	50.15	32.91	13.33	37.85	304	22	P	H
		5460.16	59.38	-8.82	68.2	50.98	32.92	13.34	37.86	304	22	P	H
		5459.68	52.21	-1.79	54	43.81	32.92	13.34	37.86	304	22	A	H
	*	5530	98.57	-	-	90.08	32.94	13.43	37.88	304	22	P	H
802.11ac	*	5530	91.7	-	-	83.21	32.94	13.43	37.88	304	22	A	H
VHT80		5733.815	50.53	-17.67	68.2	41.08	33.8	13.57	37.92	304	22	P	H
CH 106		5456.32	56.77	-17.23	74	48.38	32.91	13.33	37.85	100	62	P	V
5530MHz		5463.04	56.83	-11.37	68.2	48.42	32.93	13.34	37.86	100	62	P	V
		5438.56	51.92	-2.08	54	43.56	32.9	13.31	37.85	100	62	A	V
	*	5530	99.31	-	-	90.82	32.94	13.43	37.88	100	62	P	V
	*	5530	92.06	-	-	83.57	32.94	13.43	37.88	100	62	A	V
		5743.265	48.77	-19.43	68.2	39.25	33.86	13.58	37.92	100	62	P	V
		5456.75	52.35	-21.65	74	43.96	32.91	13.33	37.85	101	294	P	H
		5461.3	53.66	-14.54	68.2	45.26	32.92	13.34	37.86	101	294	P	H
		5456.05	46.92	-7.08	54	38.53	32.91	13.33	37.85	101	294	A	H
	*	5610	104.11	-	-	95.28	33.2	13.52	37.89	101	294	P	H
802.11ac	*	5610	96.26	-	-	87.43	33.2	13.52	37.89	101	294	A	H
VHT80		5735.95	55.86	-12.34	68.2	46.39	33.82	13.57	37.92	101	294	P	H
CH 122		5455	50.37	-23.63	74	41.98	32.91	13.33	37.85	329	57	P	V
5610MHz		5465.85	48.84	-19.36	68.2	40.42	32.93	13.35	37.86	329	57	P	V
		5447.3	43.99	-10.01	54	35.62	32.9	13.32	37.85	329	57	A	V
	*	5610	97.11	-	-	88.28	33.2	13.52	37.89	329	57	P	V
	*	5610	90.57	-	-	81.74	33.2	13.52	37.89	329	57	A	V
		5738.4	50	-18.2	68.2	40.51	33.83	13.58	37.92	329	57	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11050	52.95	-21.05	74	36.42	38.7	19.59	41.76	100	155	P	H
		11050	43.97	-10.03	54	27.44	38.7	19.59	41.76	100	155	A	H
		13292	52.28	-21.72	74	34.14	39.79	21.5	43.15	-	-	P	H
		13292	43.25	-10.75	54	25.11	39.79	21.5	43.15	-	-	A	H
		14500	52.68	-21.32	74	34.57	39.9	22.4	44.19	-	-	P	H
		14500	43.7	-10.3	54	25.59	39.9	22.4	44.19	-	-	A	H
		16590	53.36	-14.84	68.2	35.86	38.11	23.78	44.39	100	28	P	H
		17934	55.4	-18.6	74	34.84	41.34	24.64	45.42	-	-	P	H
		17934	46.37	-7.63	54	25.81	41.34	24.64	45.42	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 106		11050	52.21	-21.79	74	35.68	38.7	19.59	41.76	100	313	P	V
5530MHz		11050	43.19	-10.81	54	26.66	38.7	19.59	41.76	100	313	A	V
		13402	52.36	-15.84	68.2	33.95	40	21.58	43.17	-	-	P	V
		13402	43.38	-10.62	54	24.97	40	21.58	43.17	-	-	A	V
		14480	53.46	-20.54	74	35.38	39.88	22.39	44.19	-	-	P	V
		14480	44.42	-9.58	54	26.34	39.88	22.39	44.19	-	-	A	V
		16590	53.26	-14.94	68.2	35.76	38.11	23.78	44.39	100	23	P	V
		17978	55.37	-18.63	74	34.5	41.65	24.67	45.45	-	-	P	V
		17978	46.44	-7.56	54	25.57	41.65	24.67	45.45	-	-	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11220	51.62	-22.38	74	35.18	38.82	19.72	42.1	100	152	P	H
		11220	42.63	-11.37	54	26.19	38.82	19.72	42.1	100	152	A	H
		13358	54.1	-19.9	74	35.78	39.92	21.56	43.16	-	-	P	H
		13358	45.04	-8.96	54	26.72	39.92	21.56	43.16	-	-	A	H
		14480	53.35	-20.65	74	35.27	39.88	22.39	44.19	-	-	P	H
		14480	44.31	-9.69	54	26.23	39.88	22.39	44.19	-	-	A	H
		16830	52.87	-15.33	68.2	35.33	38.01	23.94	44.41	100	29	P	H
		17967	56.18	-17.82	74	35.4	41.57	24.66	45.45	-	-	P	H
		17967	47.16	-6.84	54	26.38	41.57	24.66	45.45	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 122		11220	51.6	-22.4	74	35.16	38.82	19.72	42.1	100	311	P	V
5610MHz		11220	42.61	-11.39	54	26.17	38.82	19.72	42.1	100	311	A	V
		13281	52.34	-21.66	74	34.22	39.78	21.49	43.15	-	-	P	V
		13281	43.38	-10.62	54	25.26	39.78	21.49	43.15	-	-	A	V
		14491	52.97	-21.03	74	34.87	39.89	22.4	44.19	-	-	P	V
		14491	43.99	-10.01	54	25.89	39.89	22.4	44.19	-	-	A	V
		16830	54.16	-14.04	68.2	36.62	38.01	23.94	44.41	100	19	P	V
		17989	55.27	-18.73	74	34.34	41.72	24.67	45.46	-	-	P	V
		17989	46.31	-7.69	54	25.38	41.72	24.67	45.46	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5447.11	52.15	-21.85	74	43.78	32.9	13.32	37.85	100	296	P	H
		5469.73	50.84	-17.36	68.2	42.41	32.94	13.35	37.86	100	296	P	H
		5458.81	40.59	-13.41	54	32.19	32.92	13.34	37.86	100	296	A	H
	*	5720	111.99	-	-	102.62	33.72	13.57	37.92	100	296	P	H
802.11n	*	5720	104.81	-	-	95.44	33.72	13.57	37.92	100	296	A	H
HT20		5851.75	53.22	-14.98	68.2	43.39	34.1	13.68	37.95	100	296	P	H
CH 144		5370.28	47.65	-26.35	74	39.49	32.78	13.2	37.82	352	296	P	V
5720MHz		5463.1	46.52	-21.68	68.2	38.11	32.93	13.34	37.86	352	296	P	V
		5459.98	37.17	-16.83	54	28.77	32.92	13.34	37.86	352	296	A	V
	*	5720	105.53	-	-	96.16	33.72	13.57	37.92	352	296	P	V
	*	5720	98.44	-	-	89.07	33.72	13.57	37.92	352	296	A	V
		5887.5	49.25	-18.95	68.2	39.3	34.17	13.74	37.96	352	296	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	55.39	-18.61	74	39.02	39.02	19.89	42.54	234	160	P	H
		11440	45.17	-8.83	54	28.8	39.02	19.89	42.54	234	160	A	H
		13336	52.81	-21.19	74	34.56	39.87	21.54	43.16	-	-	P	H
		13336	43.77	-10.23	54	25.52	39.87	21.54	43.16	-	-	A	H
		14491	52.63	-21.37	74	34.53	39.89	22.4	44.19	-	-	P	H
		14491	43.67	-10.33	54	25.57	39.89	22.4	44.19	-	-	A	H
		17160	55.93	-12.27	68.2	38.42	38	24.15	44.64	100	31	P	H
		17989	55.06	-18.94	74	34.13	41.72	24.67	45.46	-	-	P	H
		17989	46.11	-7.89	54	25.18	41.72	24.67	45.46	-	-	A	H
													H
802.11n													H
HT20													H
CH 144		11440	57.19	-16.81	74	40.82	39.02	19.89	42.54	100	240	P	V
5720MHz		11440	46.51	-7.49	54	30.14	39.02	19.89	42.54	100	240	A	V
		13281	52.27	-21.73	74	34.15	39.78	21.49	43.15	-	-	P	V
		13281	43.3	-10.7	54	25.18	39.78	21.49	43.15	-	-	A	V
		14470	53.18	-20.82	74	35.11	39.87	22.38	44.18	-	-	P	V
		14470	44.2	-9.8	54	26.13	39.87	22.38	44.18	-	-	A	V
		17160	59.26	-8.94	68.2	41.75	38	24.15	44.64	100	22	P	V
		18000	55.76	-18.24	74	34.75	41.8	24.68	45.47	-	-	P	V
		18000	46.79	-7.21	54	25.78	41.8	24.68	45.47	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		5448.67	51.27	-22.73	74	42.9	32.9	13.32	37.85	100	286	P	H
		5463.1	51.41	-16.79	68.2	43	32.93	13.34	37.86	100	286	P	H
		5431.12	43.68	-10.32	54	35.33	32.9	13.3	37.85	100	286	A	H
	*	5710	109.37	-	-	100.07	33.66	13.56	37.92	100	286	P	H
	*	5710	101.49	-	-	92.19	33.66	13.56	37.92	100	286	A	H
		5857	52.69	-15.51	68.2	42.84	34.11	13.69	37.95	100	286	P	H
		5458.81	47.66	-26.34	74	39.26	32.92	13.34	37.86	351	306	P	V
		5461.15	48.39	-19.81	68.2	39.99	32.92	13.34	37.86	351	306	P	V
		5459.98	39.04	-14.96	54	30.64	32.92	13.34	37.86	351	306	A	V
	*	5710	102.48	-	-	93.18	33.66	13.56	37.92	351	306	P	V
	*	5710	94.96	-	-	85.66	33.66	13.56	37.92	351	306	A	V
		5864.25	49.52	-18.68	68.2	39.64	34.13	13.7	37.95	351	306	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	52.52	-21.48	74	36.08	39.06	19.88	42.5	249	156	P	H
		11420	44	-10	54	27.56	39.06	19.88	42.5	249	156	A	H
		13303	52.79	-21.21	74	34.62	39.81	21.51	43.15	-	-	P	H
		13303	43.77	-10.23	54	25.6	39.81	21.51	43.15	-	-	A	H
		14491	53.07	-20.93	74	34.97	39.89	22.4	44.19	-	-	P	H
		14491	44.07	-9.93	54	25.97	39.89	22.4	44.19	-	-	A	H
		17130	54.22	-13.98	68.2	36.69	38	24.13	44.6	100	30	P	H
		17934	56.36	-17.64	74	35.8	41.34	24.64	45.42	-	-	P	H
		17934	47.43	-6.57	54	26.87	41.34	24.64	45.42	-	-	A	H
													H
802.11n													H
HT40													H
CH 142		11420	52.15	-21.85	74	35.71	39.06	19.88	42.5	100	239	P	V
5710MHz		11420	44.22	-9.78	54	27.78	39.06	19.88	42.5	100	239	A	V
		13325	52.35	-21.65	74	34.13	39.85	21.53	43.16	-	-	P	V
		13325	43.34	-10.66	54	25.12	39.85	21.53	43.16	-	-	A	V
		14480	52.62	-21.38	74	34.54	39.88	22.39	44.19	-	-	P	V
		14480	43.67	-10.33	54	25.59	39.88	22.39	44.19	-	-	A	V
		17130	55.51	-12.69	68.2	37.98	38	24.13	44.6	100	20	P	V
		17945	56.25	-17.75	74	35.62	41.41	24.65	45.43	-	-	P	V
		17945	47.31	-6.69	54	26.68	41.41	24.65	45.43	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.59	52.46	-21.54	74	44.06	32.92	13.34	37.86	100	284	P	H
		5459.98	52.45	-21.55	74	44.05	32.92	13.34	37.86	100	284	P	H
		5426.05	45.2	-8.8	54	36.85	32.9	13.29	37.84	100	284	A	H
	*	5690	103.72	-	-	94.55	33.52	13.56	37.91	100	284	P	H
802.11ac	*	5690	96.84	-	-	87.67	33.52	13.56	37.91	100	284	A	H
VHT80		5872.9	51.52	-16.68	68.2	41.6	34.15	13.72	37.95	100	284	P	H
CH 138		5407.72	47.53	-26.47	74	39.2	32.9	13.27	37.84	340	52	P	V
5690MHz		5470	46.09	-22.11	68.2	37.66	32.94	13.35	37.86	340	52	P	V
		5447.89	40.71	-13.29	54	32.34	32.9	13.32	37.85	340	52	A	V
	*	5690	97.64	-	-	88.47	33.52	13.56	37.91	340	52	P	V
	*	5690	90.83	-	-	81.66	33.52	13.56	37.91	340	52	A	V
		5931.4	47.95	-20.25	68.2	37.84	34.26	13.81	37.96	340	52	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	52.05	-21.95	74	35.56	39.06	19.85	42.42	100	150	P	H
		11380	43.07	-10.93	54	26.58	39.06	19.85	42.42	100	150	A	H
		13248	52.28	-15.92	68.2	34.2	39.75	21.47	43.14	-	-	P	H
		14500	52.61	-21.39	74	34.5	39.9	22.4	44.19	-	-	P	H
		14500	43.64	-10.36	54	25.53	39.9	22.4	44.19	-	-	A	H
		17070	51.84	-16.36	68.2	34.24	38.03	24.09	44.52	100	30	P	H
		17956	55.42	-18.58	74	34.72	41.49	24.65	45.44	-	-	P	H
		17956	46.41	-7.59	54	25.71	41.49	24.65	45.44	-	-	A	H
													H
													H
802.11ac													H
VHT80													H
CH 138		11380	51.87	-22.13	74	35.38	39.06	19.85	42.42	100	310	P	V
5690MHz		11380	42.85	-11.15	54	26.36	39.06	19.85	42.42	100	310	A	V
		13270	52.26	-21.74	74	34.16	39.77	21.48	43.15	-	-	P	V
		13270	43.28	-10.72	54	25.18	39.77	21.48	43.15	-	-	A	V
		14470	52.85	-21.15	74	34.78	39.87	22.38	44.18	-	-	P	V
		14470	43.79	-10.21	54	25.72	39.87	22.38	44.18	-	-	A	V
		17070	51.69	-16.51	68.2	34.09	38.03	24.09	44.52	100	19	P	V
		17945	55.89	-18.11	74	35.26	41.41	24.65	45.43	-	-	P	V
		17945	46.91	-7.09	54	26.28	41.41	24.65	45.43	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission above 18GHz

WIFI 802.11n HT40 (SHF @ 1m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 SHF		38746	52.44	-21.56	74	40.41	43	25.88	56.85	-	-	P	H
		38746	41.06	-12.94	54	29.03	43	25.88	56.85	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		38790	52.48	-21.52	74	40.36	43.06	25.89	56.83	-	-	P	V
		38790	41.66	-12.34	54	29.54	43.06	25.89	56.83	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		71.71	31.93	-8.07	40	53.43	12.35	1.74	35.59	-	-	P	H
		148.34	26.92	-16.58	43.5	42.59	17.35	2.45	35.47	-	-	P	H
		405.39	27.82	-18.18	46	36.67	22.13	3.85	34.83	-	-	P	H
		600.36	32.32	-13.68	46	36.54	25.47	4.69	34.38	-	-	P	H
		739.07	36.01	-9.99	46	37.09	27.56	5.14	33.78	-	-	P	H
		956.35	35.53	-10.47	46	31.86	30.63	6	32.96	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.97	24.63	-15.37	40	35.19	23.9	1.2	35.66	-	-	P	V
		74.62	28.42	-11.58	40	49.51	12.72	1.77	35.58	-	-	P	V
		136.7	25.97	-17.53	43.5	41.59	17.51	2.37	35.5	-	-	P	V
		600.36	33.91	-12.09	46	38.13	25.47	4.69	34.38	-	-	P	V
		749.74	34.66	-11.34	46	35.55	27.66	5.19	33.74	-	-	P	V
		949.56	35.46	-10.54	46	32.03	30.42	5.99	32.98	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		5150	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 @ 5150MHz:

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 @ 5150MHz:

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

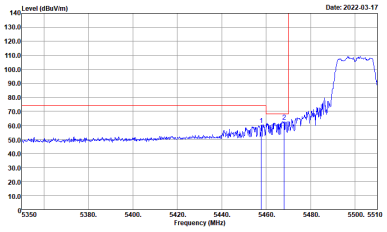
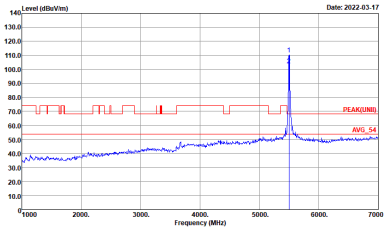
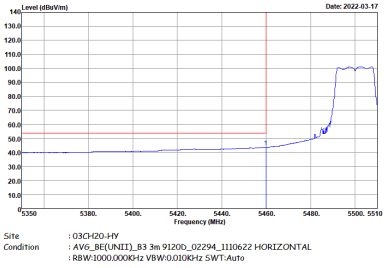
Test Engineer :	Bill Chang, JC Liang and Bigshow Wang	**Temperature :**	18~20°C
		Relative Humidity :	68~70%

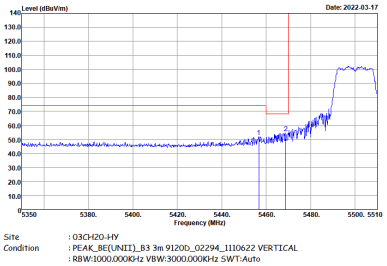
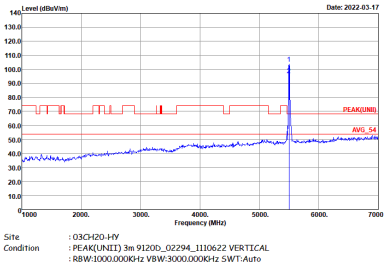
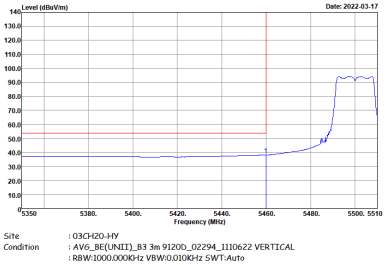
Note symbol

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

Band 3 - 5470~5725MHz

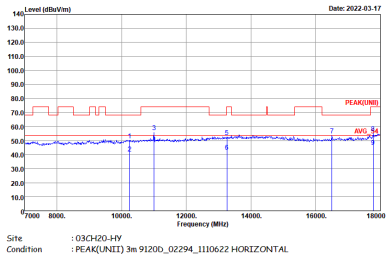
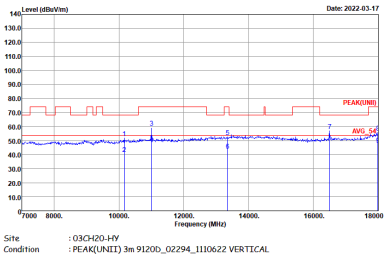
WIFI 802.11a (Band Edge @ 3m)

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

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

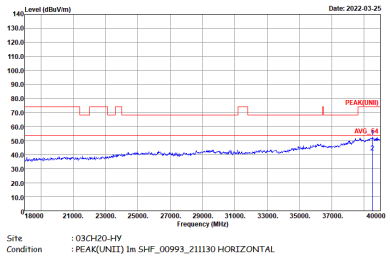
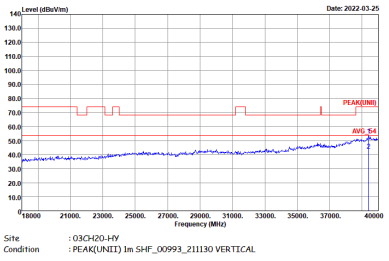
Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

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

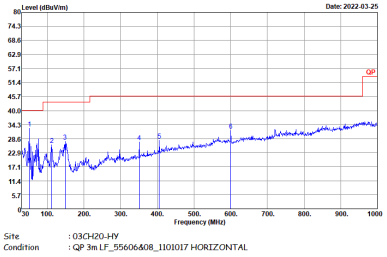
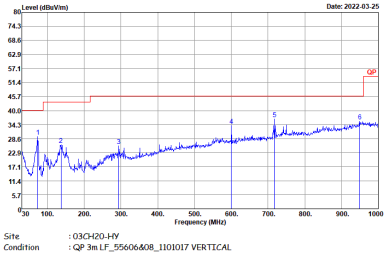
Emission above 18GHz

5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
1	Horizontal	Vertical
Peak Avg.		

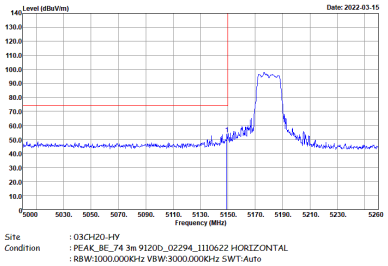
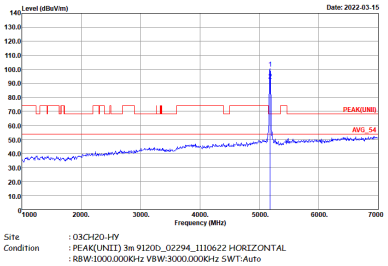
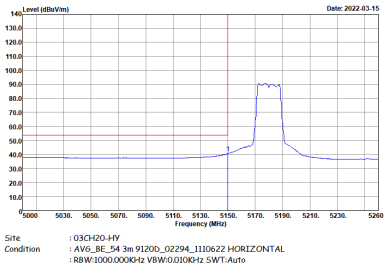
Emission below 1GHz

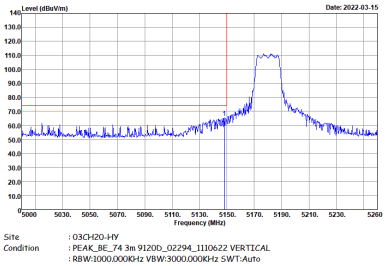
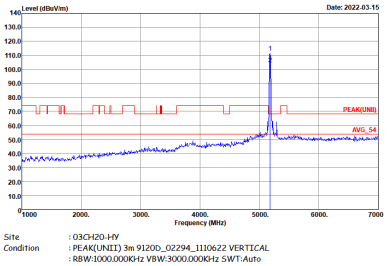
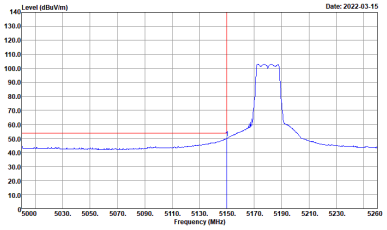
5GHz WIFI 802.11a (LF)

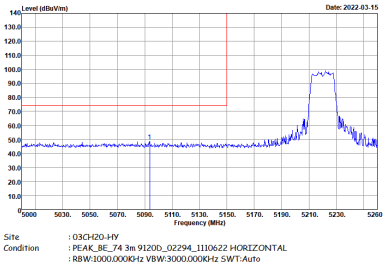
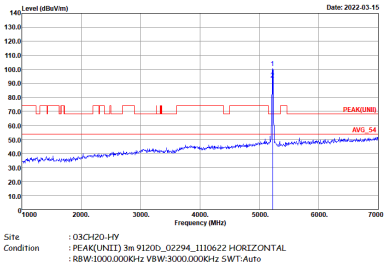
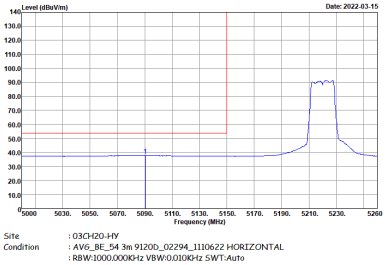
WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak		

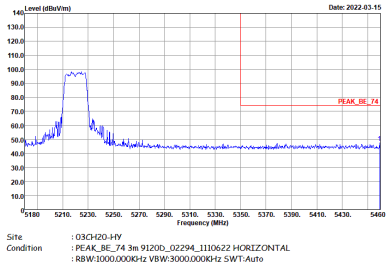
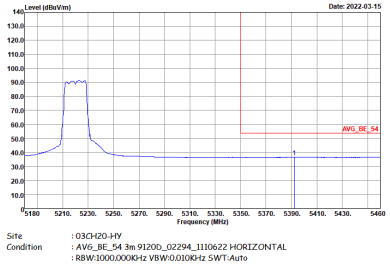
Band 1 - 5150~5250MHz

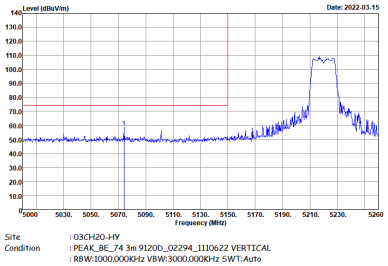
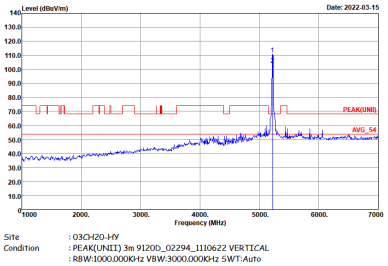
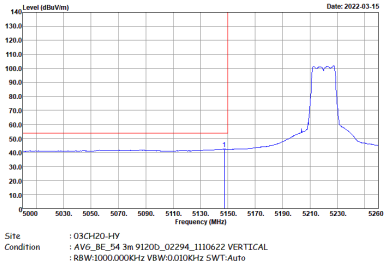
WIFI 802.11a (Band Edge @ 3m)

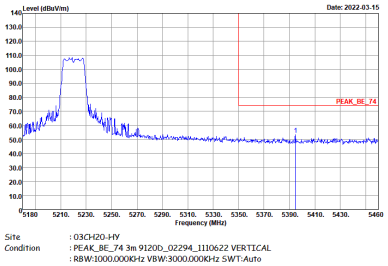
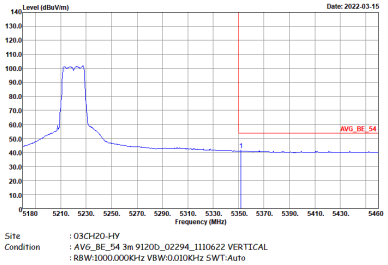
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

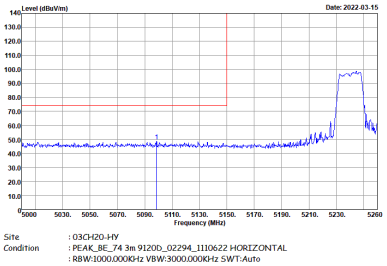
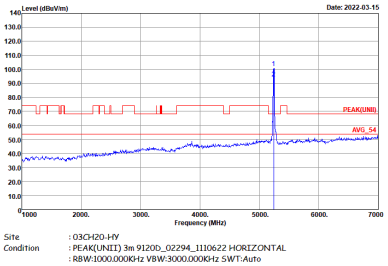
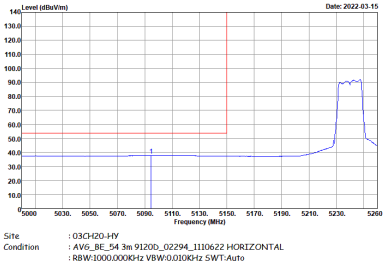
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AV6_BE_54 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

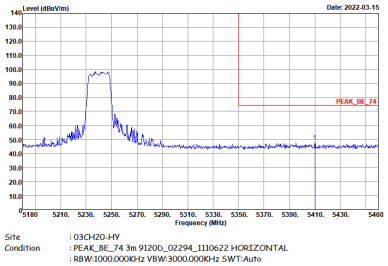
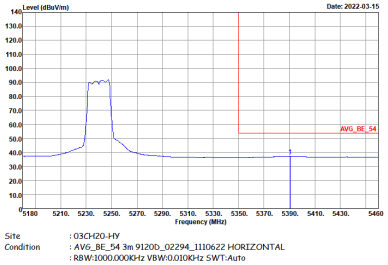
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

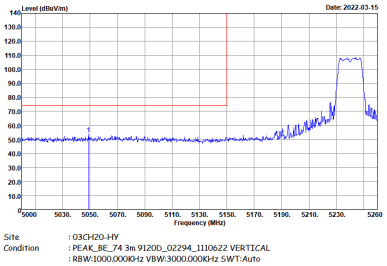
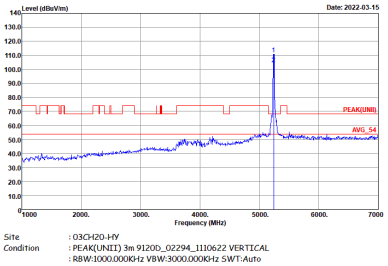
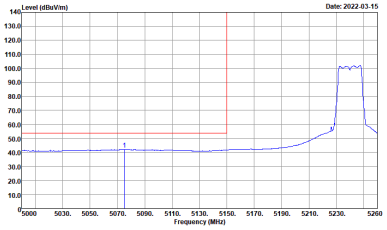
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

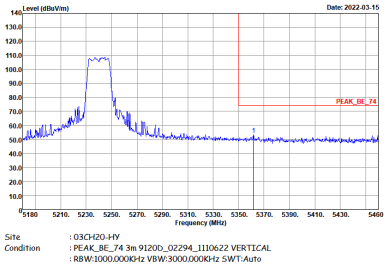
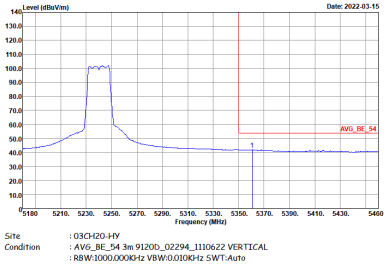
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

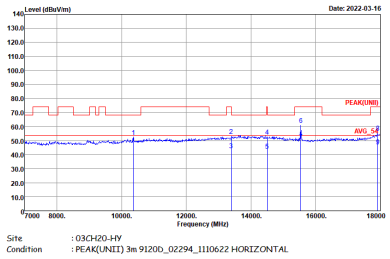
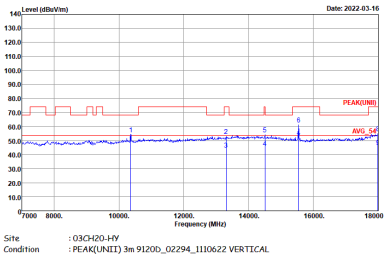
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

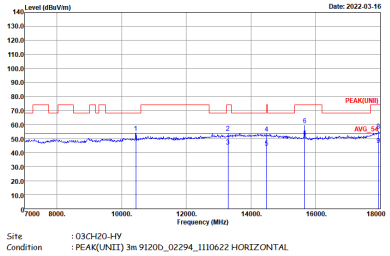
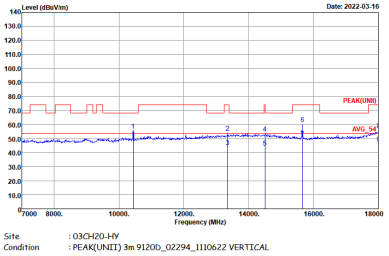
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AV6_BE_54 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

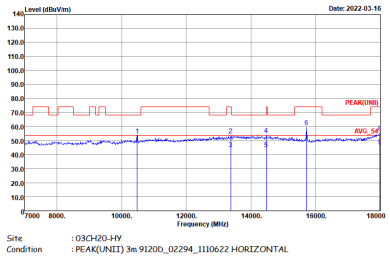
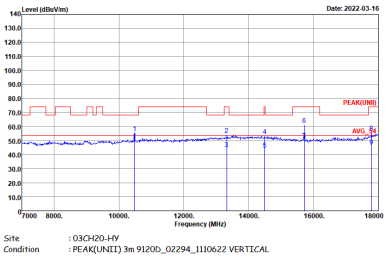
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

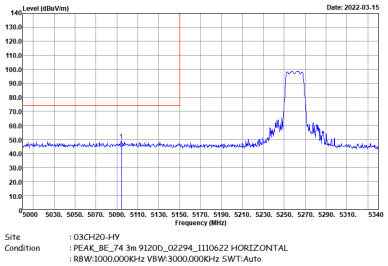
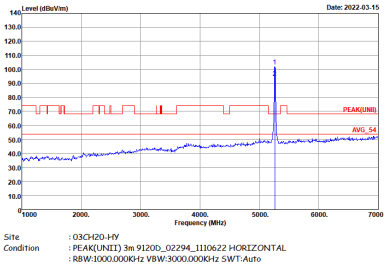
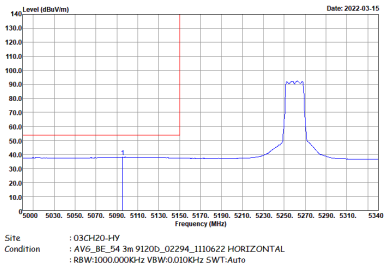
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

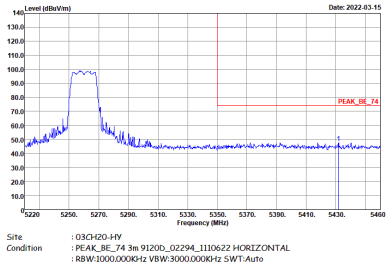
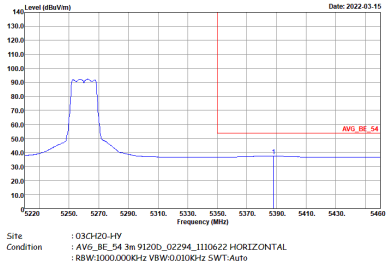
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 	

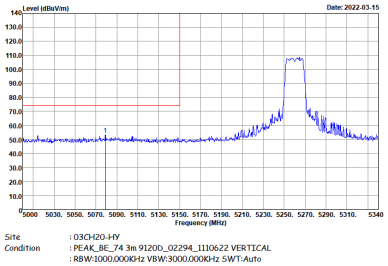
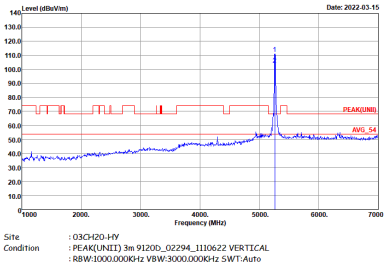
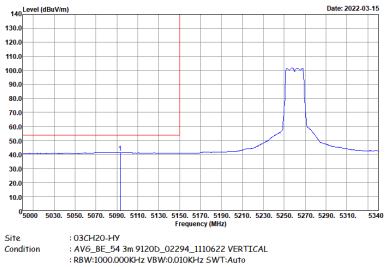
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.		

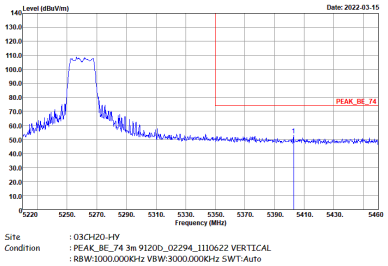
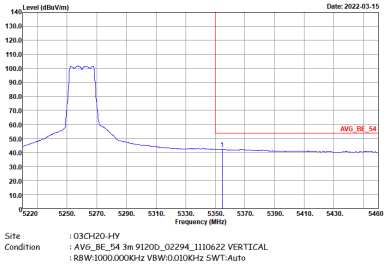
Band 2 - 5250~5350MHz

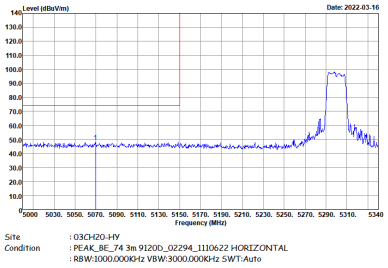
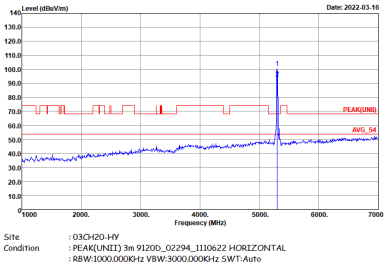
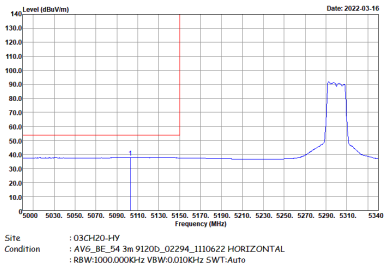
WIFI 802.11a (Band Edge @ 3m)

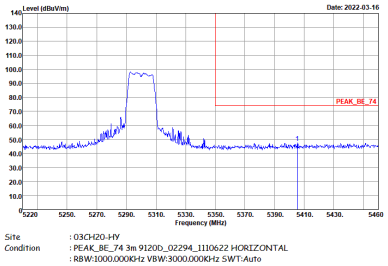
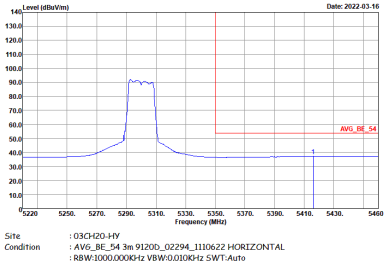
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

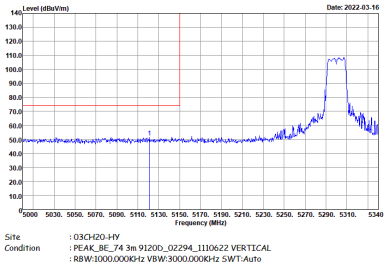
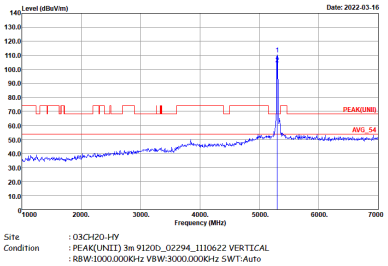
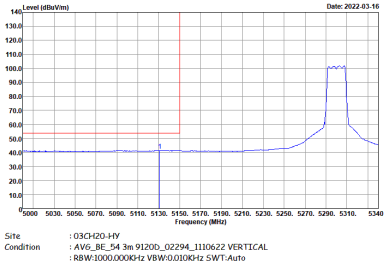
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

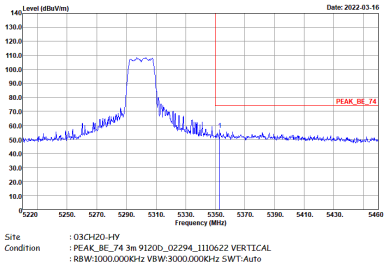
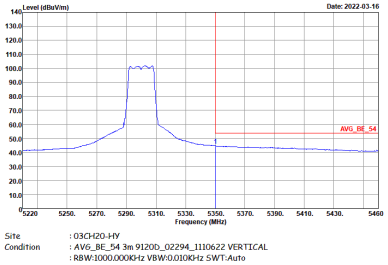
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

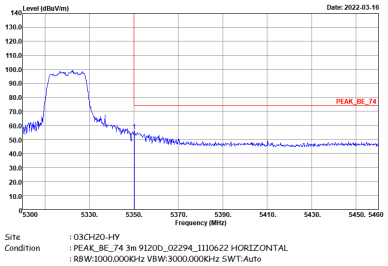
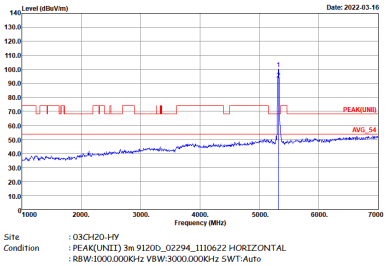
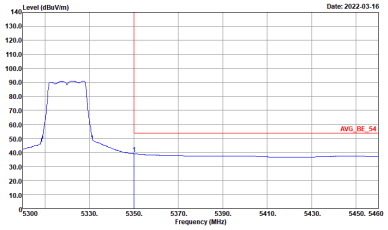
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

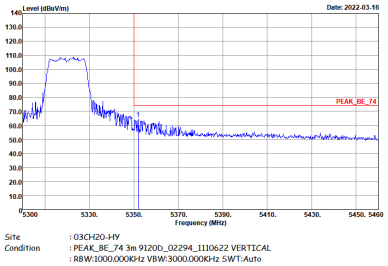
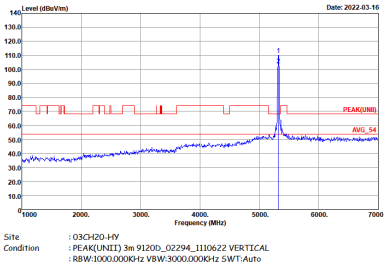
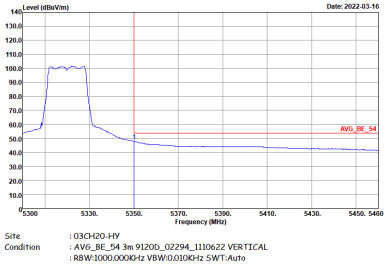
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

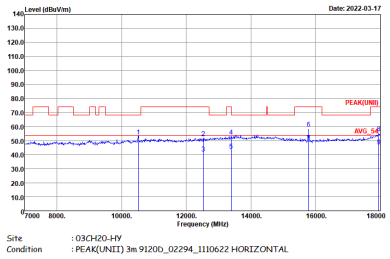
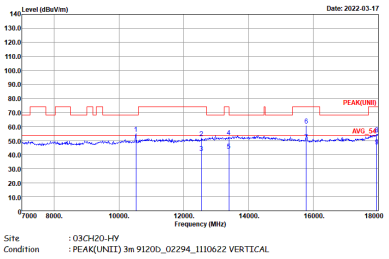
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

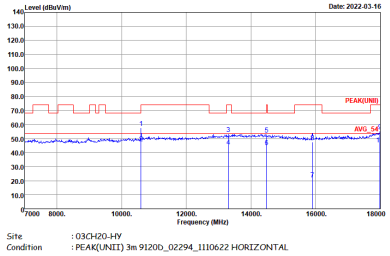
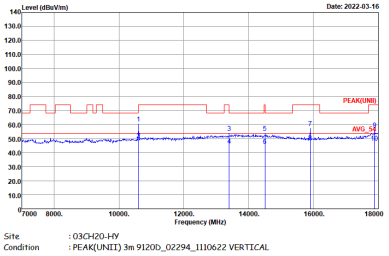
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AV6_BE_54 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

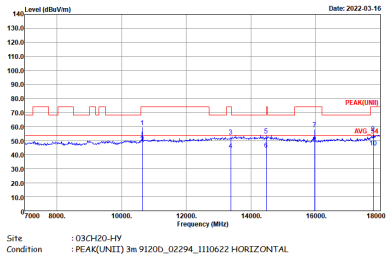
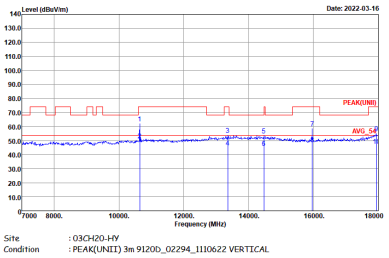
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

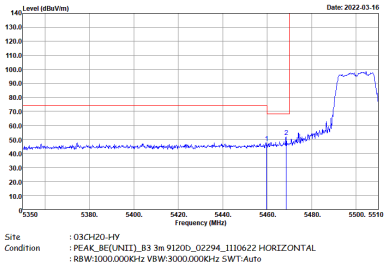
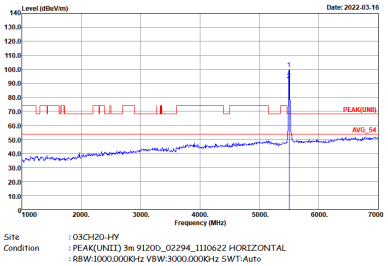
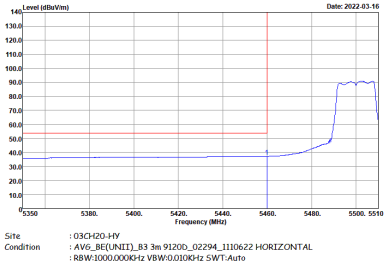
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.		

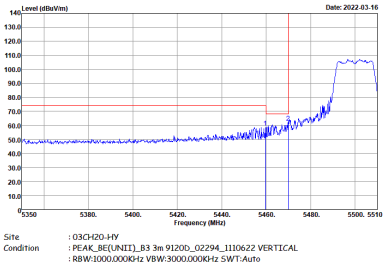
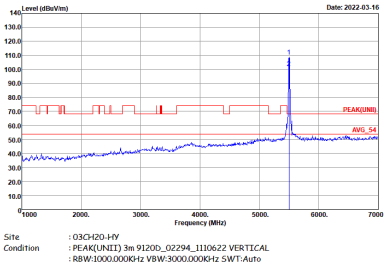
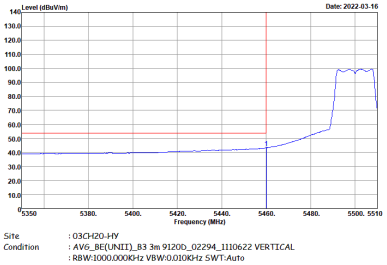
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

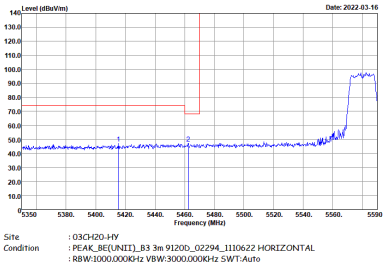
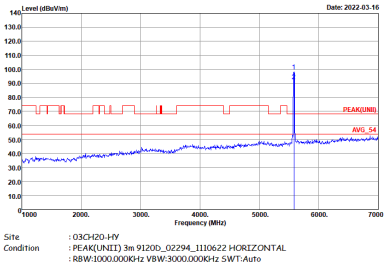
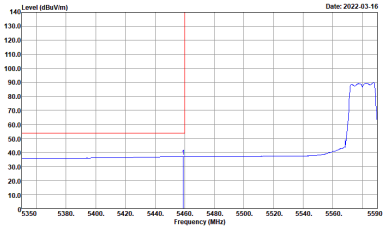
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.		

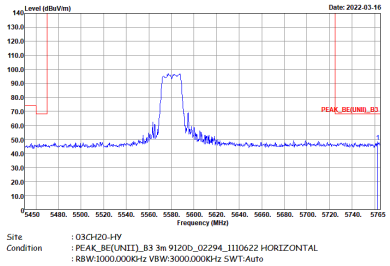
Band 3 - 5470~5725MHz

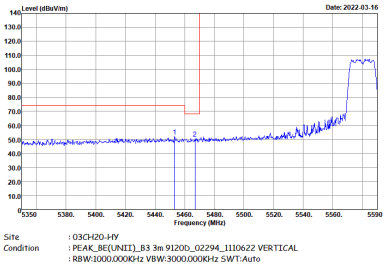
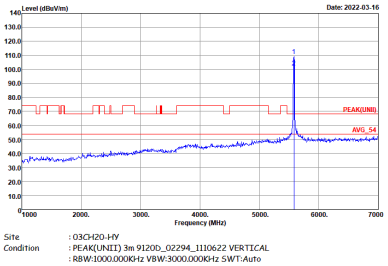
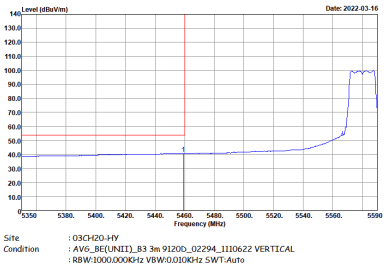
WIFI 802.11a (Band Edge @ 3m)

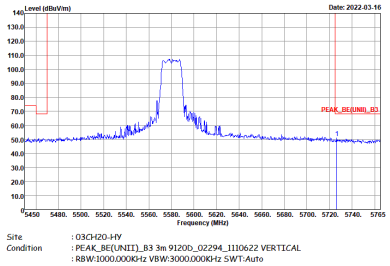
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

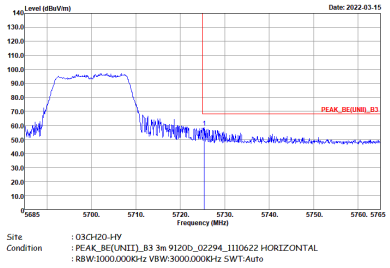
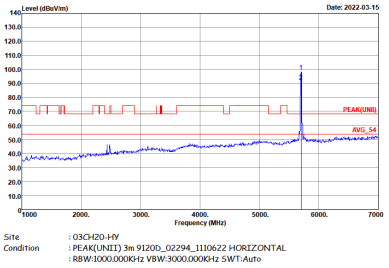
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

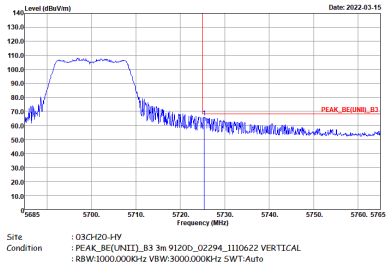
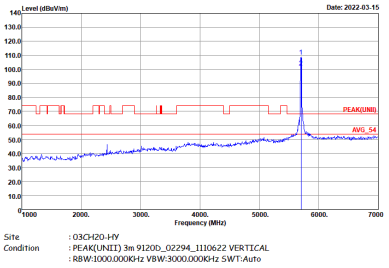
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AV6_BE(UNII)_B3 3m 9120D_02294_1110622 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

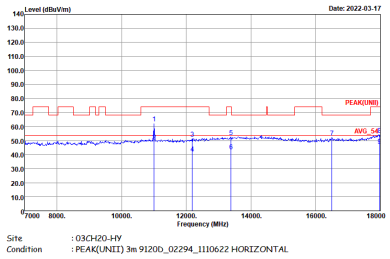
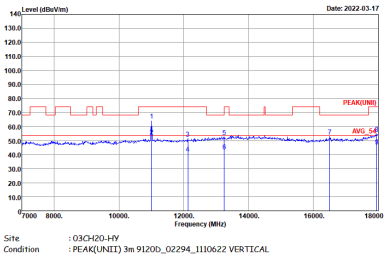
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Vertical	Fundamental
Peak		Left blank

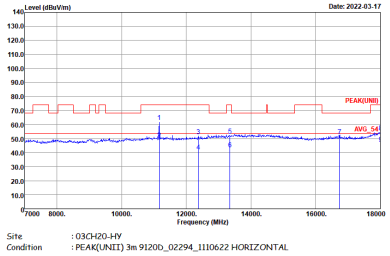
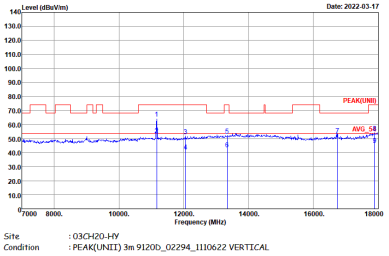
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

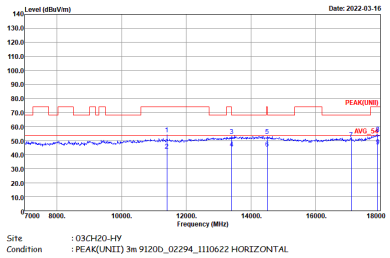
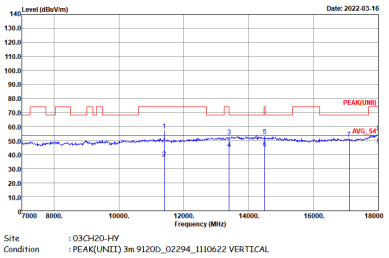
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak		

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

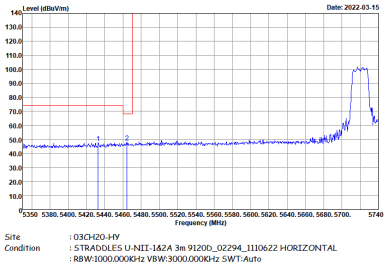
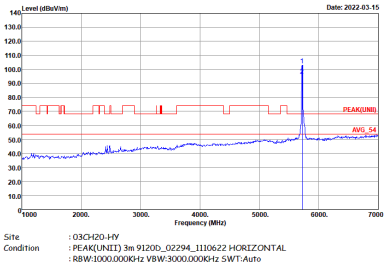
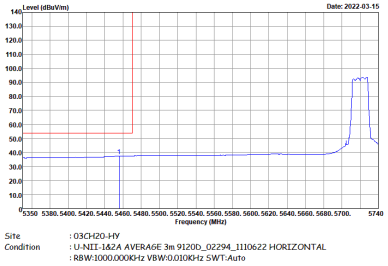
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

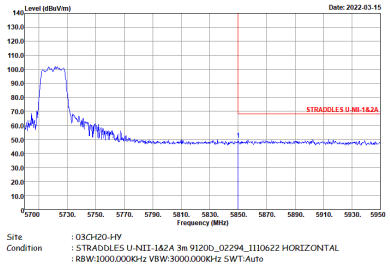
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

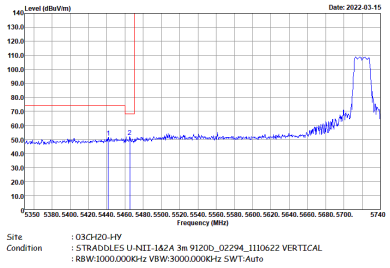
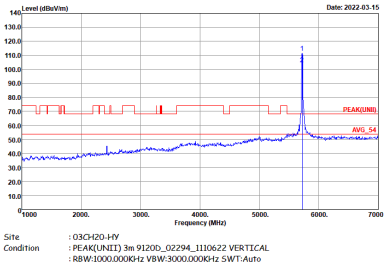
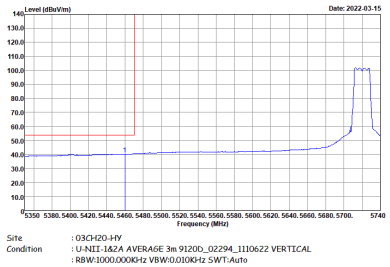
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.		

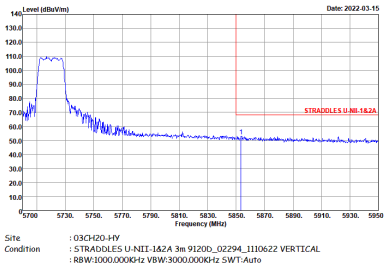
Band 3 - Straddle Channel

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

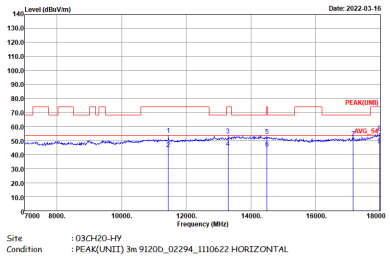
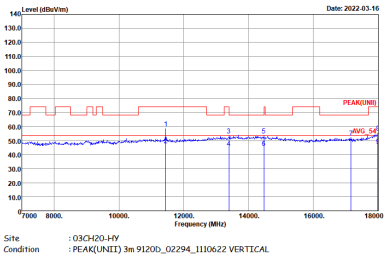
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
2	Horizontal	Fundamental
Peak		Left blank

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

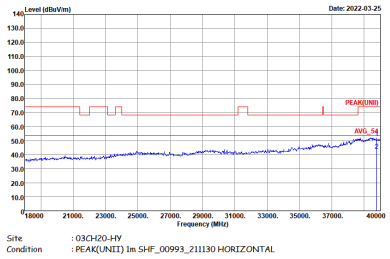
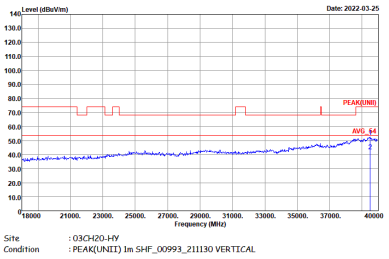
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

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

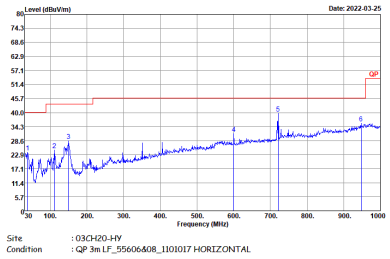
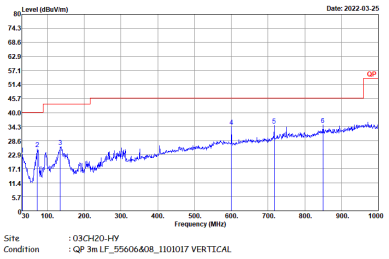
Emission above 18GHz

5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
2	Horizontal	Vertical
Peak Avg.		

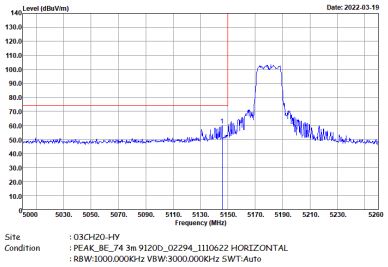
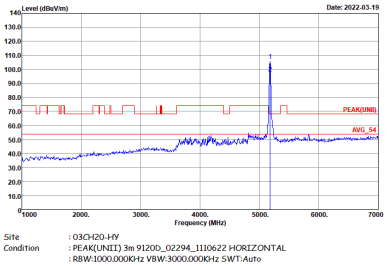
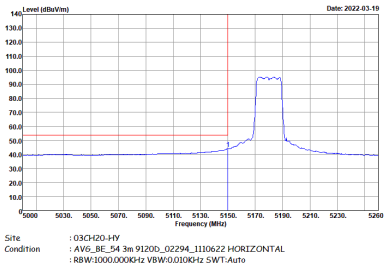
Emission below 1GHz

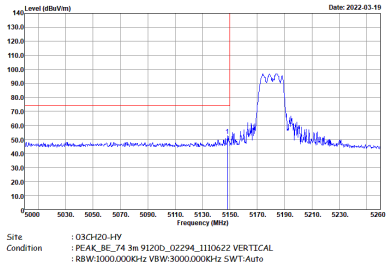
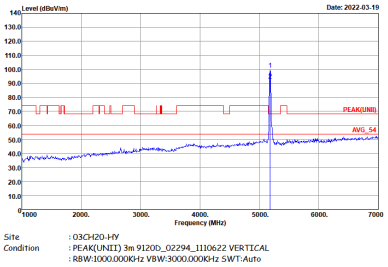
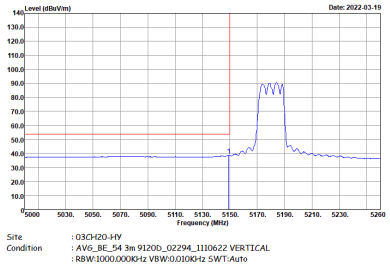
5GHz WIFI 802.11a (LF)

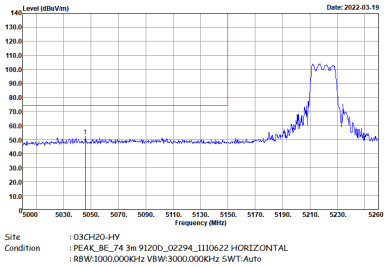
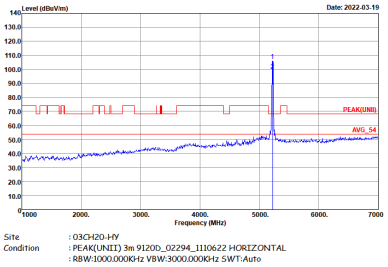
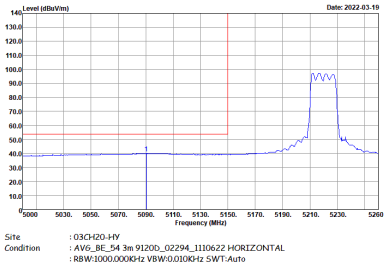
WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak		

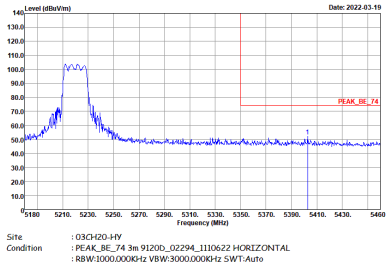
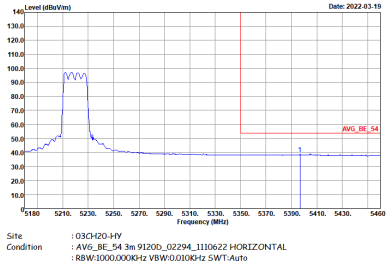
Band 1 - 5150~5250MHz

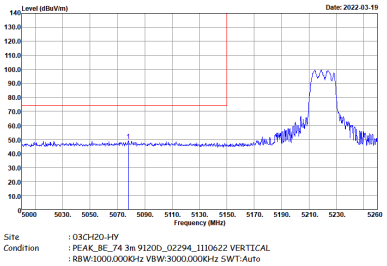
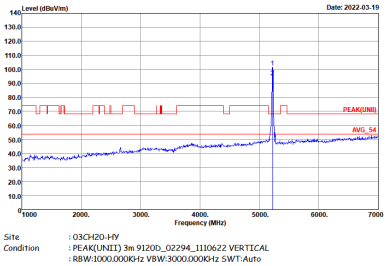
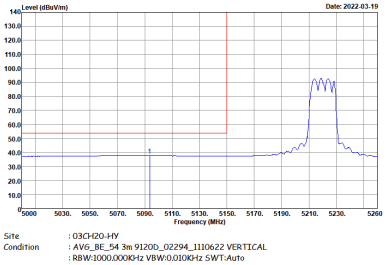
WIFI 802.11n HT20 (Band Edge @ 3m)

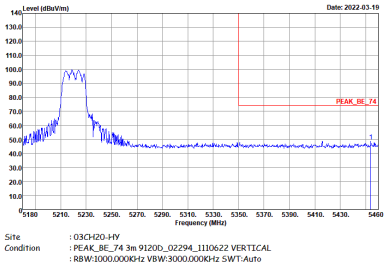
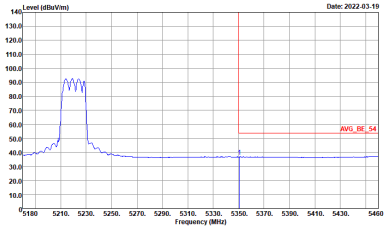
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

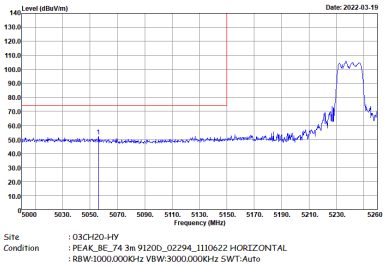
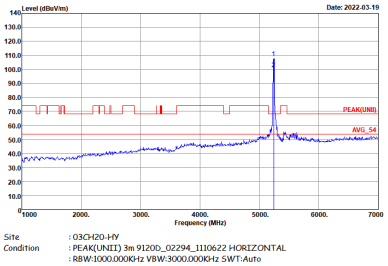
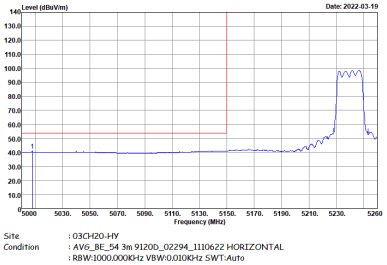
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

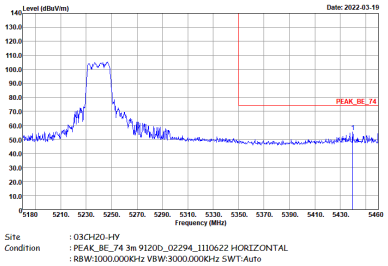
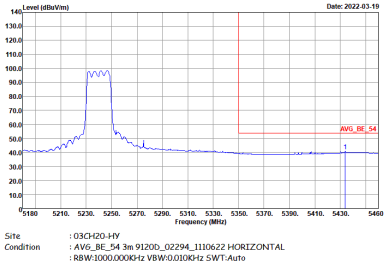
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

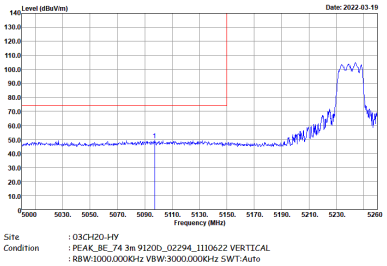
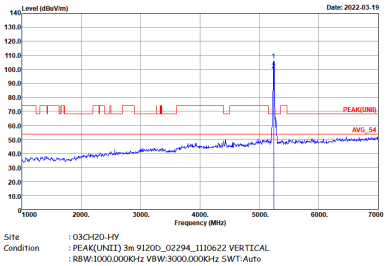
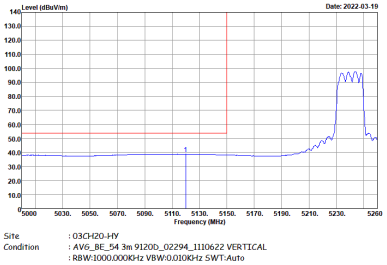
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

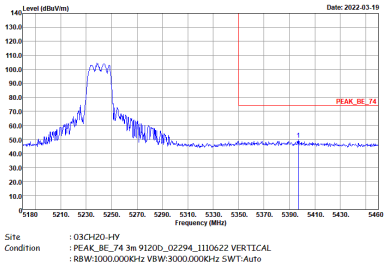
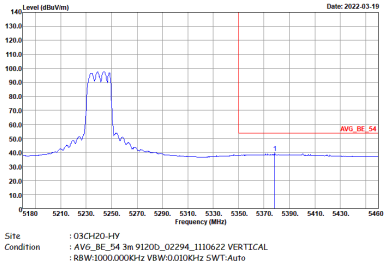
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-HY Condition : AV6_BE_54 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

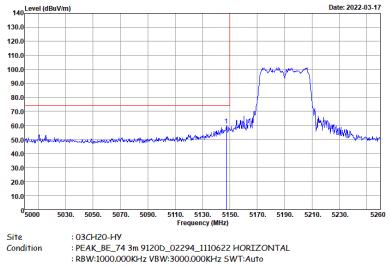
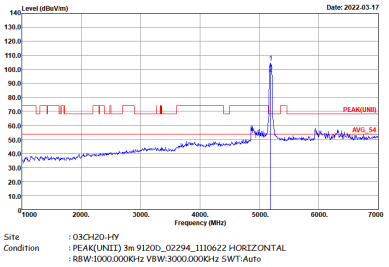
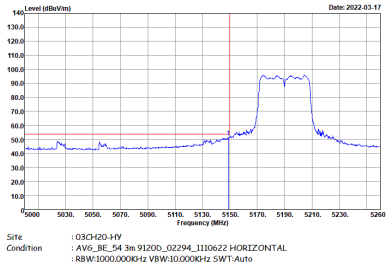
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

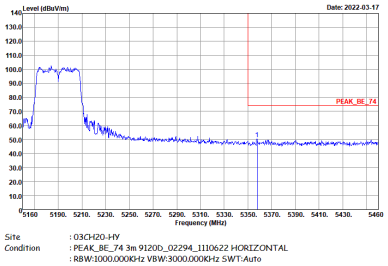
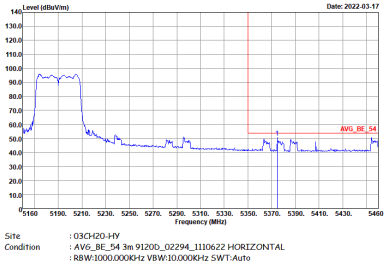
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

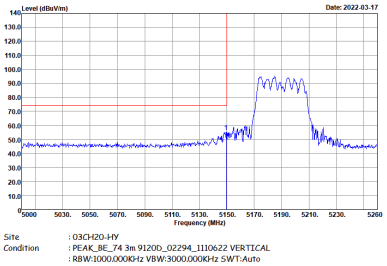
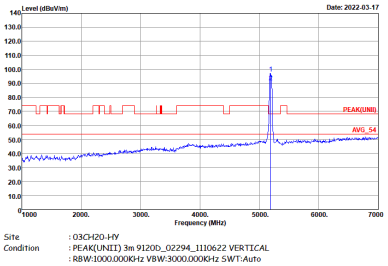
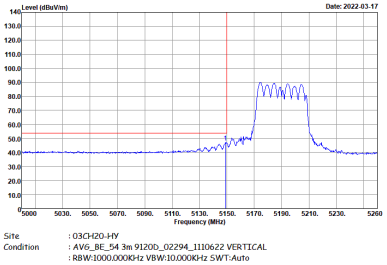
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

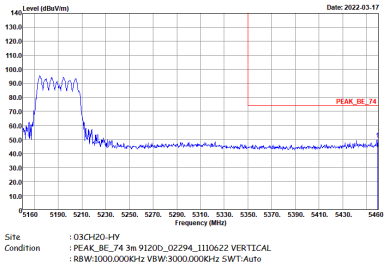
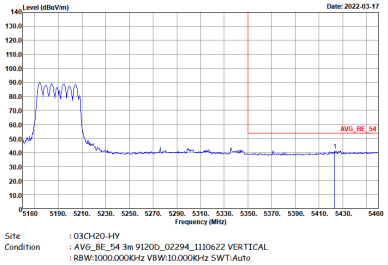
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

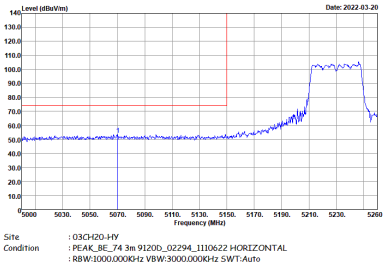
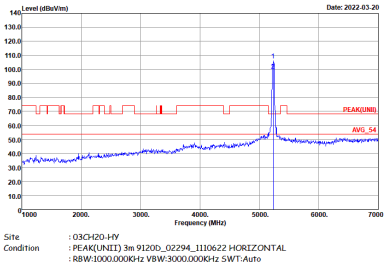
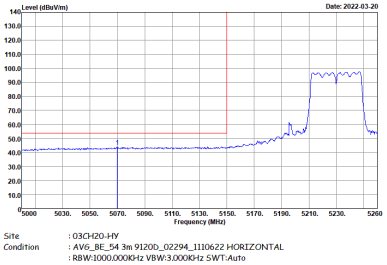
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

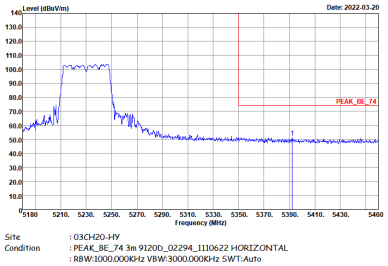
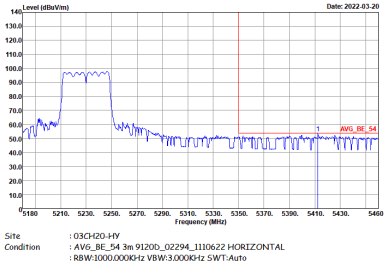
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

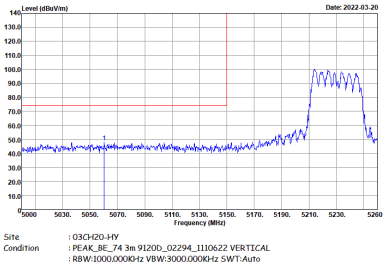
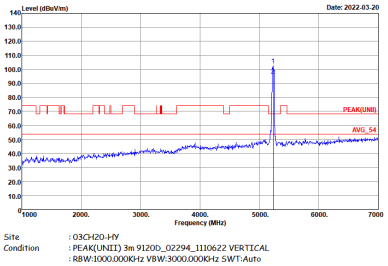
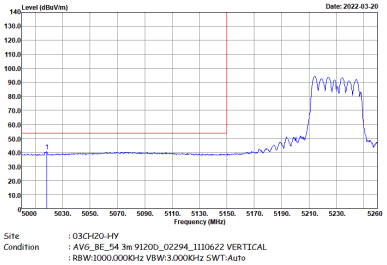
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

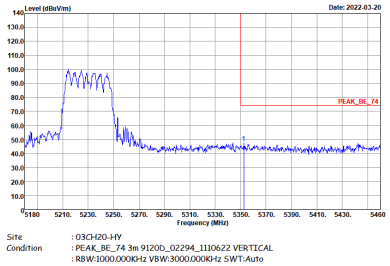
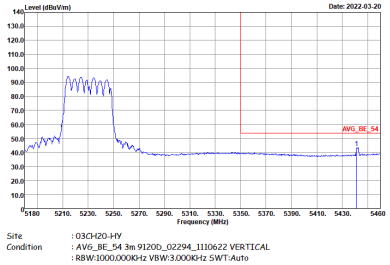
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

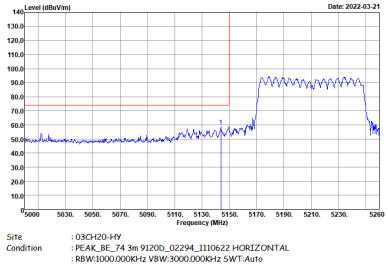
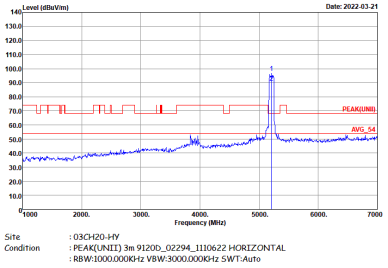
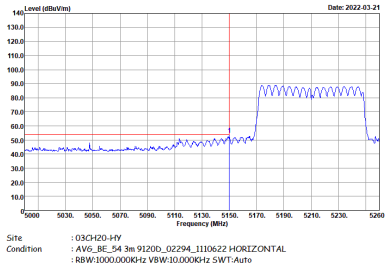
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

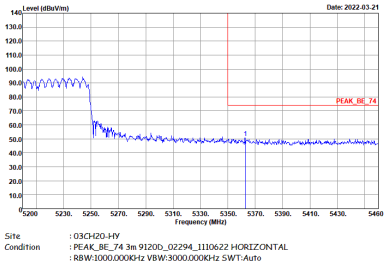
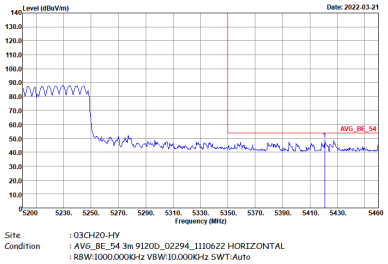
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

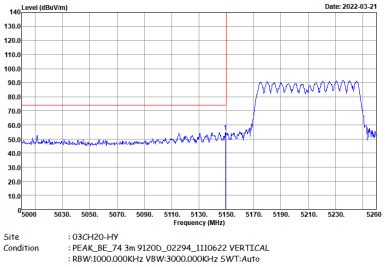
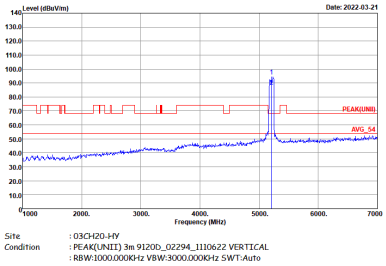
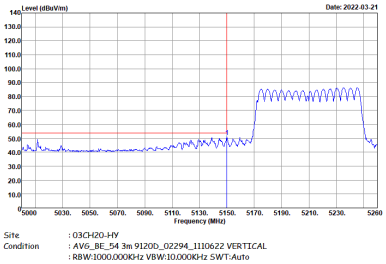
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

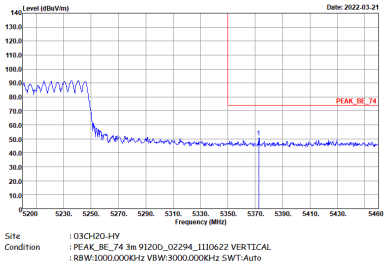
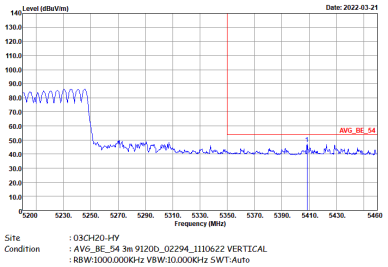
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

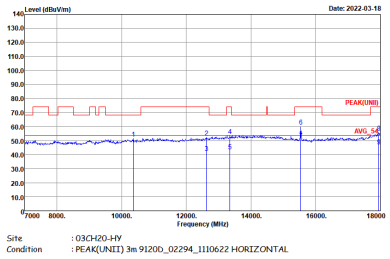
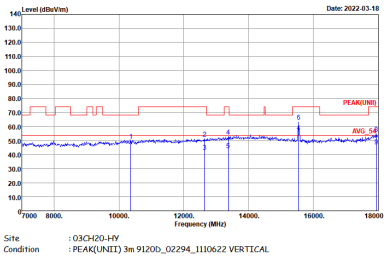
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

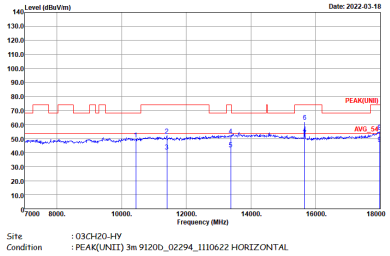
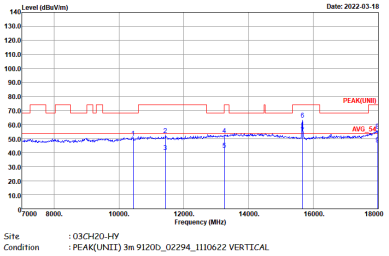
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

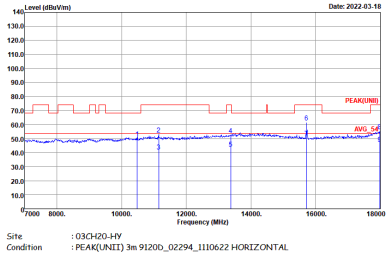
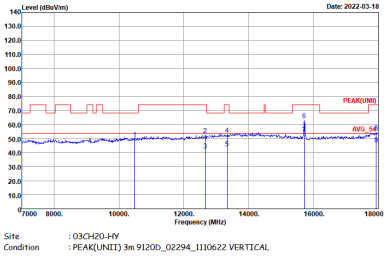
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

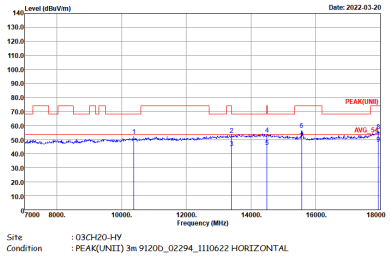
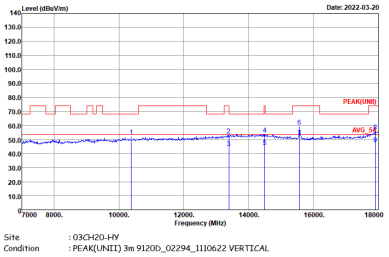
WIFI 802.11n HT20 (Harmonic @ 3m)

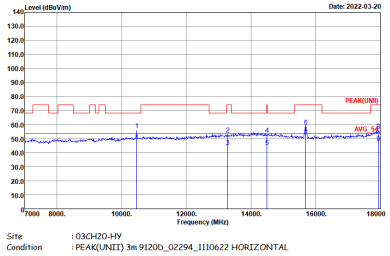
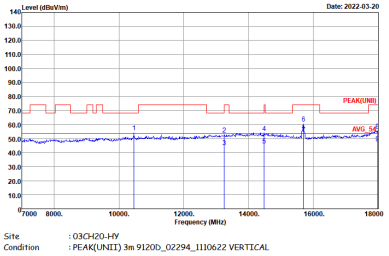
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

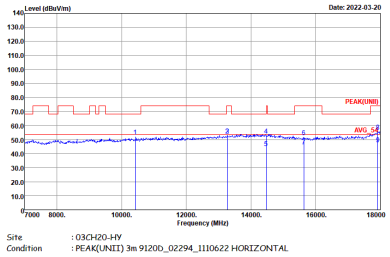
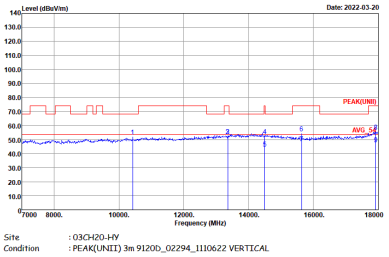
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.		

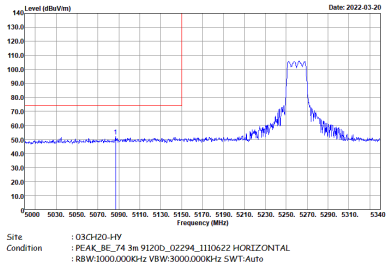
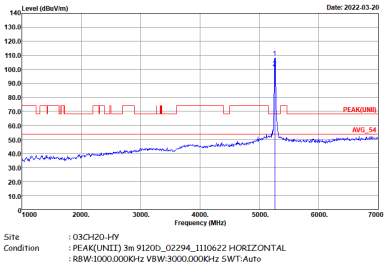
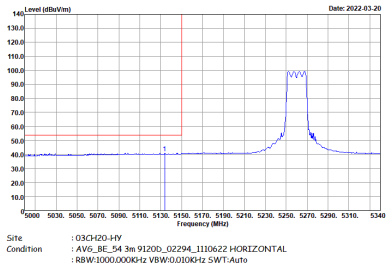
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

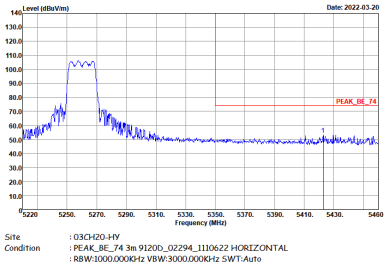
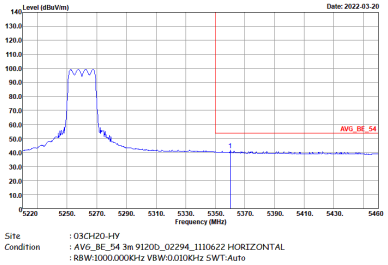
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

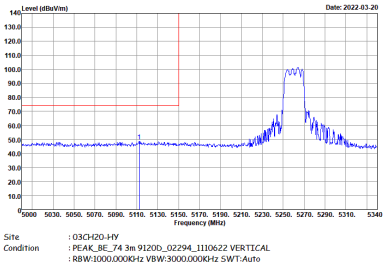
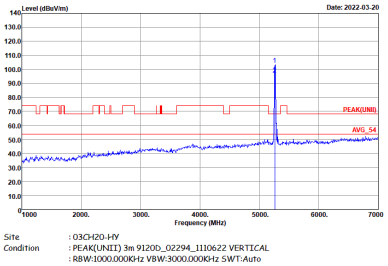
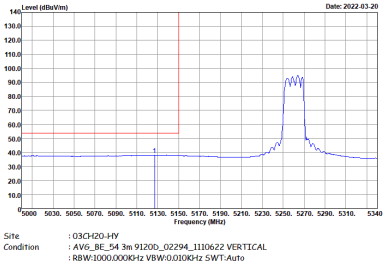
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

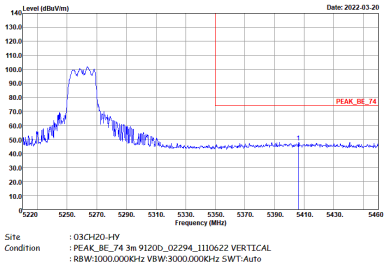
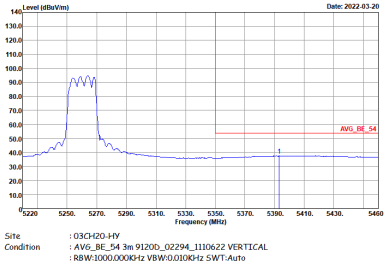
Band 2 - 5250~5350MHz

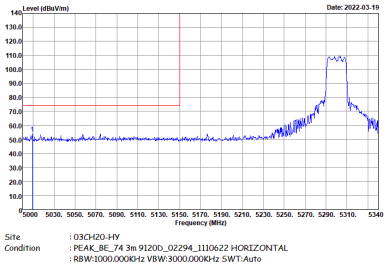
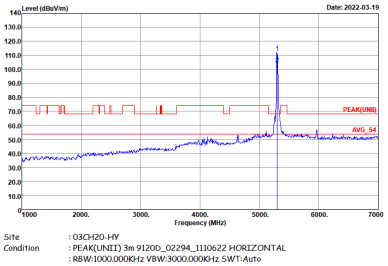
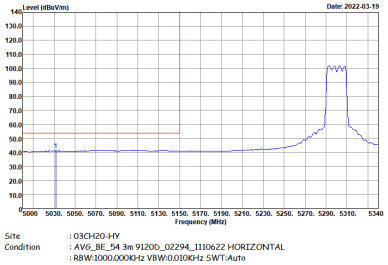
WIFI 802.11n HT20 (Band Edge @ 3m)

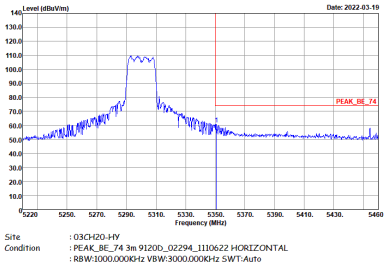
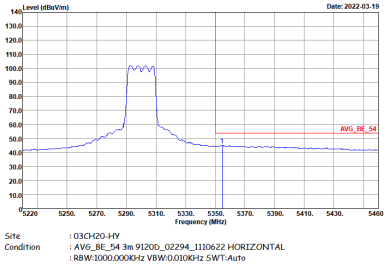
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

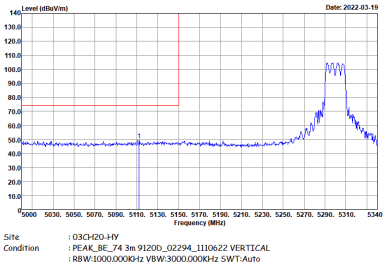
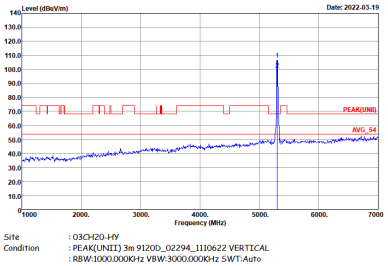
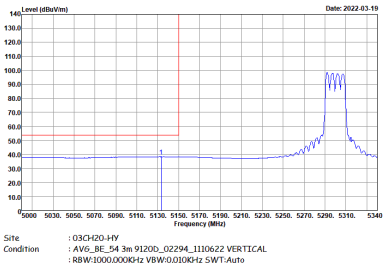
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

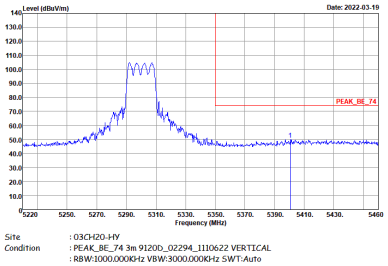
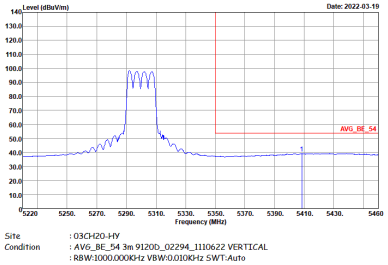
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

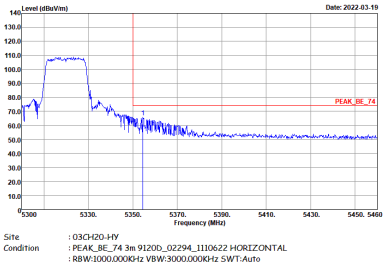
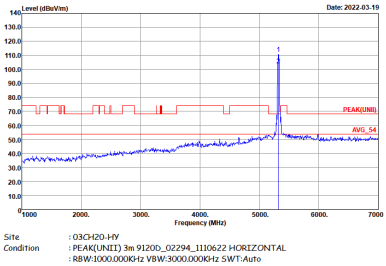
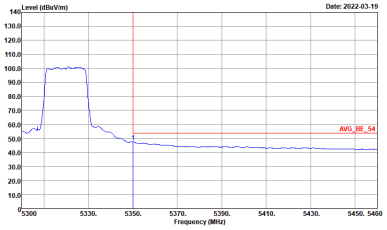
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

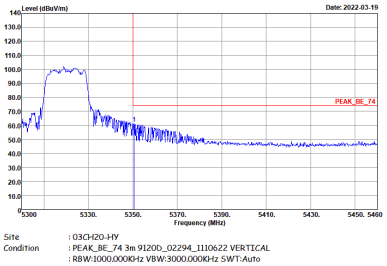
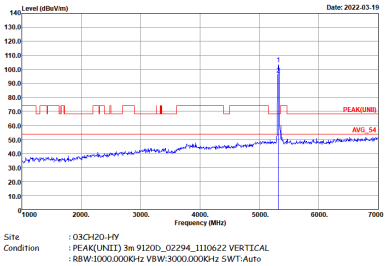
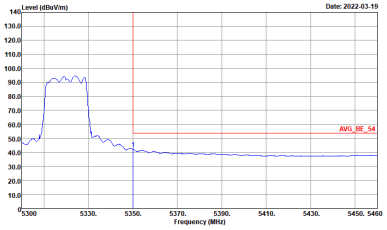
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

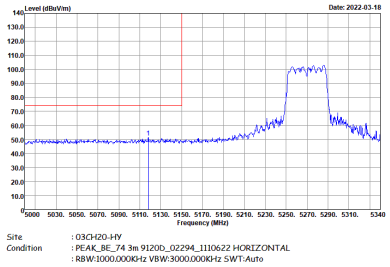
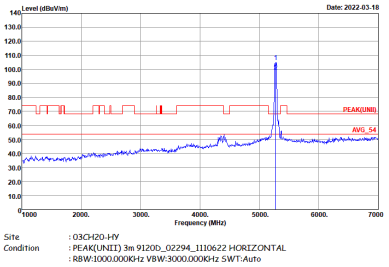
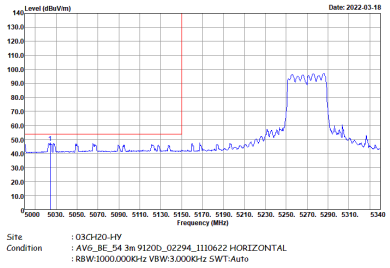
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

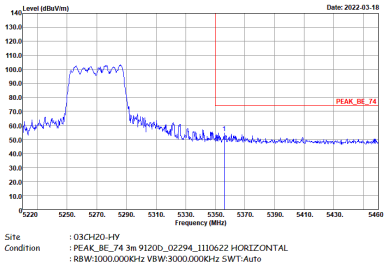
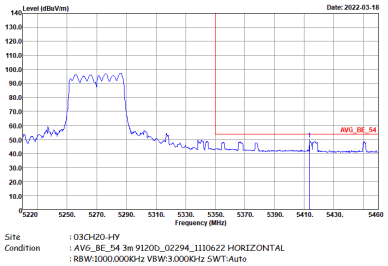
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

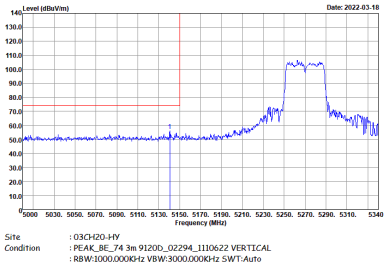
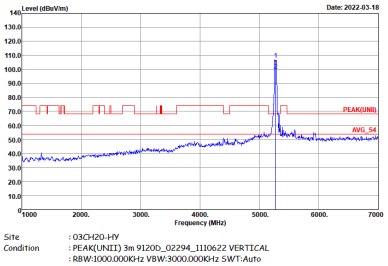
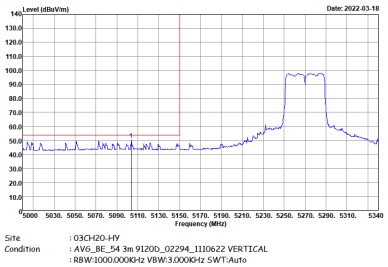
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AV6_BE_54 3m 9120D_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

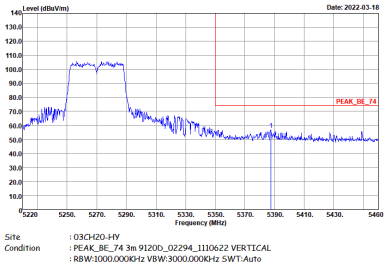
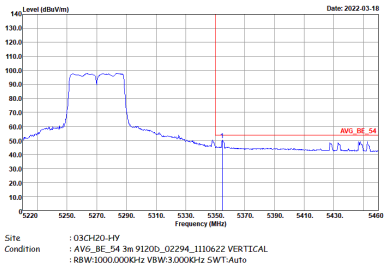
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 9120D_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

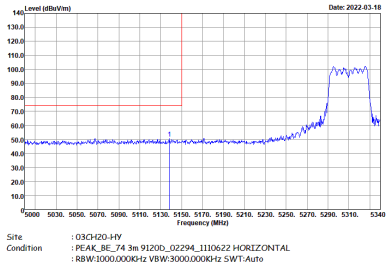
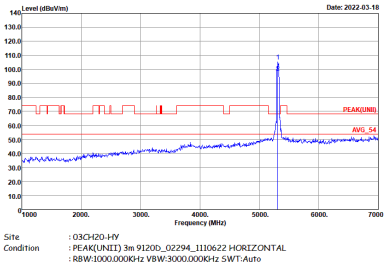
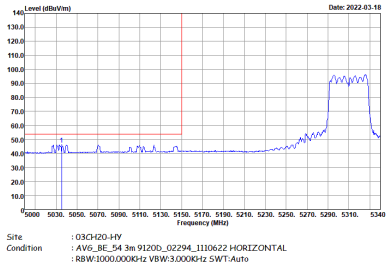
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

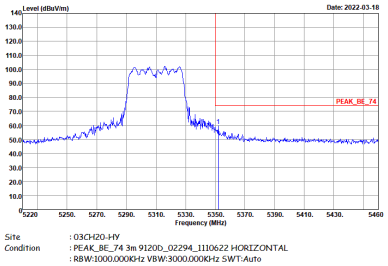
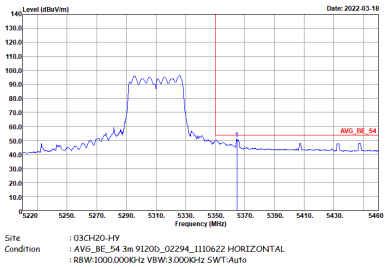
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

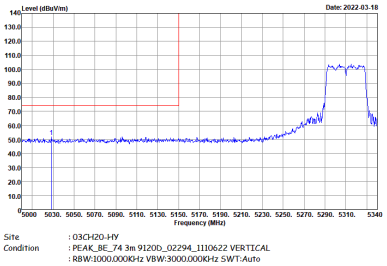
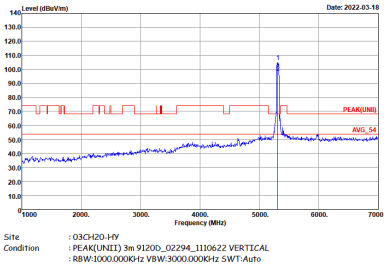
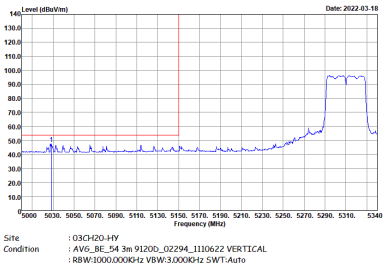
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

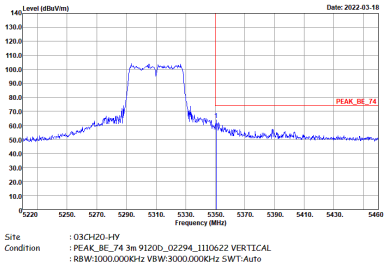
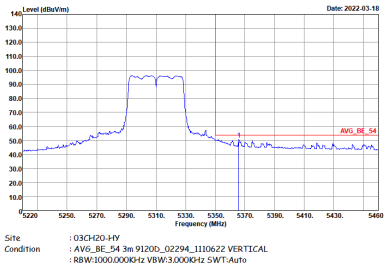
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1+2	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1+2	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

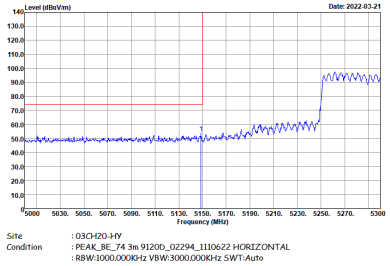
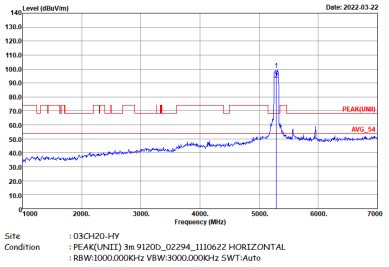
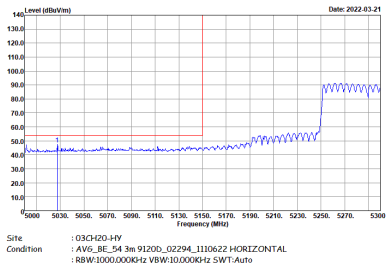
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

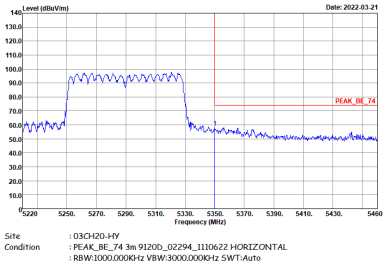
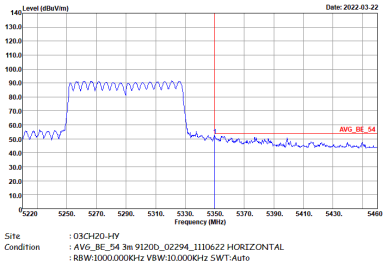
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1+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	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank