FCC RADIO TEST REPORT

FCC ID	:	**2A3DW-MZ1000**
Equipment	:	**Head-mounted tablet**
Brand Name	:	**Moziware**
Model Name	:	**MZ1000**
Marketing Name	:	**cimo**
Applicant	:	**RealWear (Shanghai) Intelligent Technology Co., Ltd. 2F,Block21, No.55 Chuanhe Road, Pudong New District, Shanghai, China**
Manufacturer	:	**RealWear (Shanghai) Intelligent Technology Co., Ltd. 2F,Block21, No.55 Chuanhe Road, Pudong New District, Shanghai, China**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Oct. 01, 2021 and testing was started from Oct. 14, 2021 and completed on Nov. 27, 2021. 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 of 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 **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Location 5
1.4 Applicable Standards 6
2 Test Configuration of Equipment Under Test **7**
2.1 Carrier Frequency and Channel 7
2.2 Test Mode 8
2.3 Connection Diagram of Test System 9
2.4 Support Unit used in test configuration and system 9
2.5 EUT Operation Test Setup 9
2.6 Measurement Results Explanation Example 10
3 Test Result **11**
3.1 26dB & 99% Occupied Bandwidth Measurement 11
3.2 Maximum Conducted Output Power Measurement 14
3.3 Power Spectral Density Measurement 15
3.4 Unwanted Emissions Measurement 17
3.5 AC Conducted Emission Measurement 22
3.6 Antenna Requirements 24
4 List of Measuring Equipment **25**
5 Uncertainty of Evaluation **27**
Appendix A. Conducted Test Results
Appendix B. AC Conducted Emission Test Result
Appendix C. Radiated Spurious Emission
Appendix D. Radiated Spurious Emission Plots
Appendix E. Duty Cycle Plots
Appendix F. Setup Photographs

History of this test report

Report No.	Version	Description	Issued Date
FR193007D	01	Initial issue of report	Nov. 18, 2021
FR193007D	02	Revise test data	Nov. 29, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 0.67 dB at 5350.560 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 16.59 dB at 0.805 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

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

Reviewed by: Sheng Kuo

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: PIFA Antenna Bluetooth: PIFA Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	-0.54
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	-1.56
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	-0.05

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

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY (TAF Code: 1190)
Remark	The 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 and 03CH13-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 of the manufacturer, the EUT must comply with the requirements of the following standards:

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). 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 Z plane 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

Note:

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

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + USB Cable (Charging from Adapter) + Camera (Front) + Earphone

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

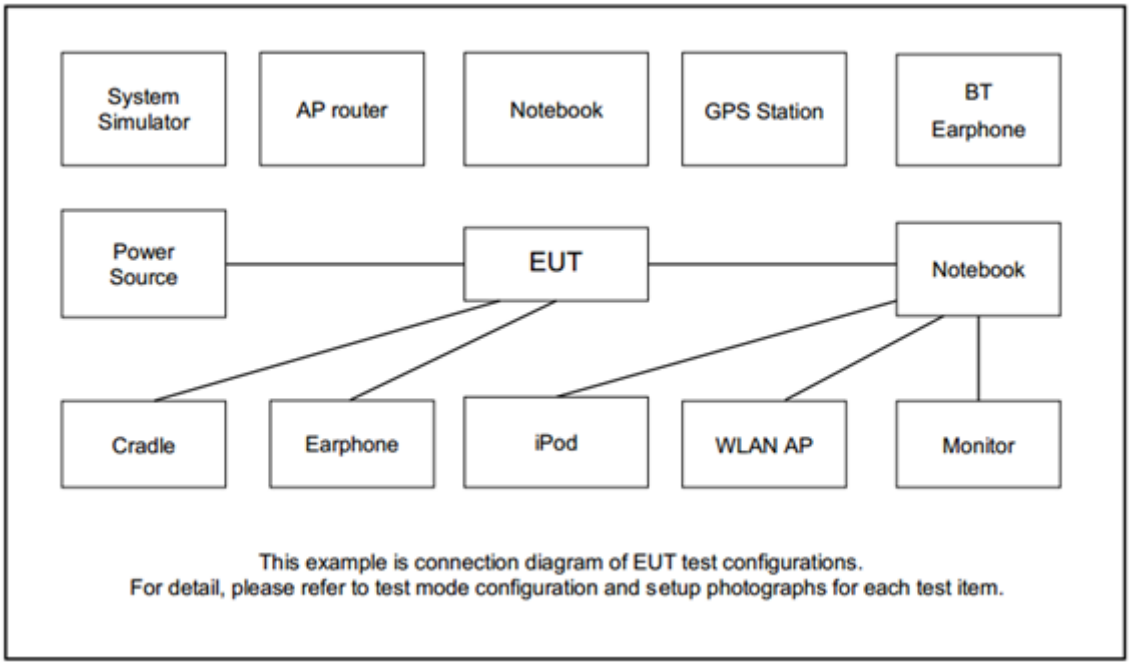
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
3.	Earphone	Sony	MH750	N/A	Unshielded, 1.2m	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Notebook	ACER	A515-54G-51QB	N/A	N/A	Unshielded, 1.8m
7.	Adapter	DVE	DSA-5PFM-05 FUS 050100	FCC DoC	N/A	N/A
8.	Adapter	Sony	AC-0030-TW	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT V4.0.00175.0” 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.

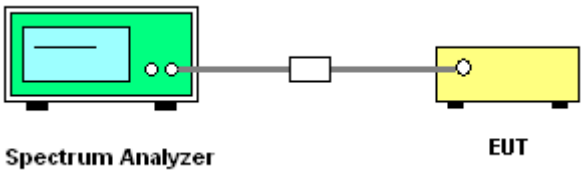
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

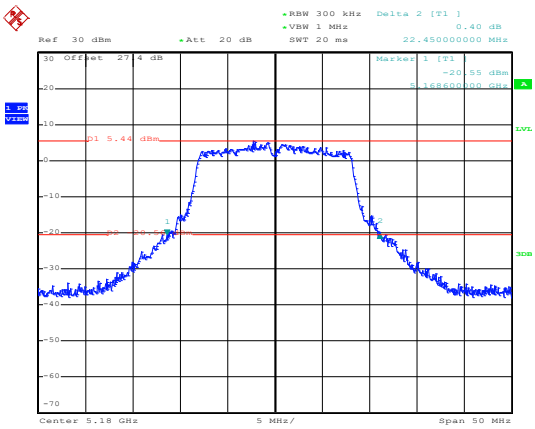
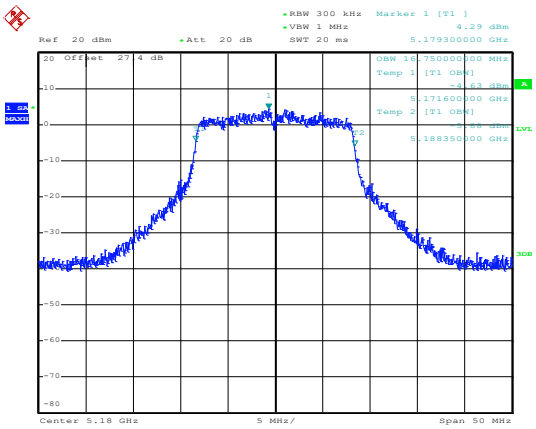
3.1.4 Test Setup



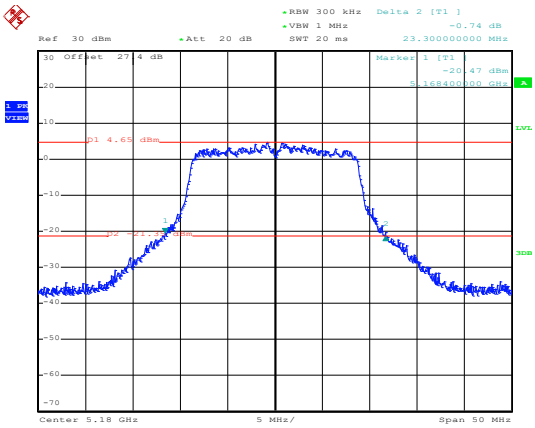
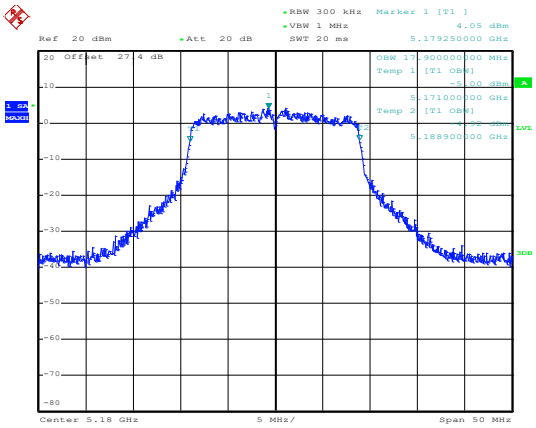
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

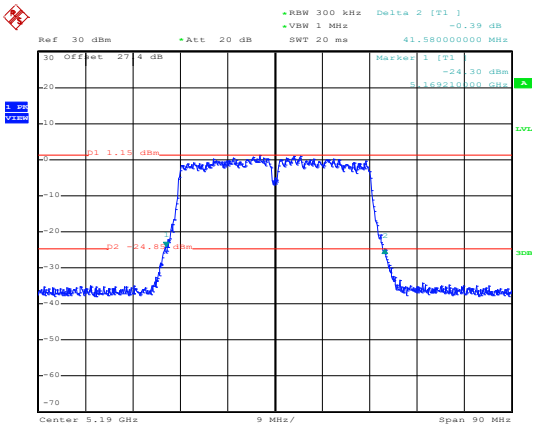
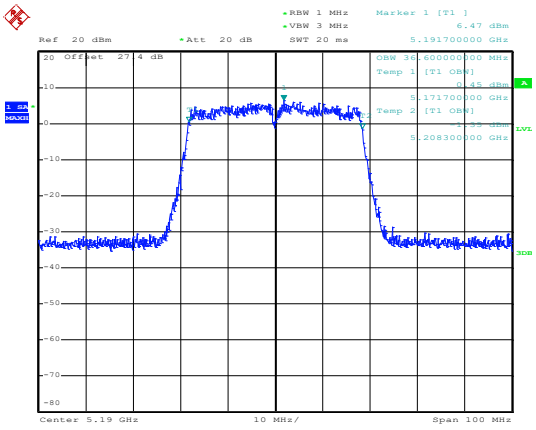
<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	
Date: 27.NOV.2021 09:22:43	Date: 27.NOV.2021 09:23:07

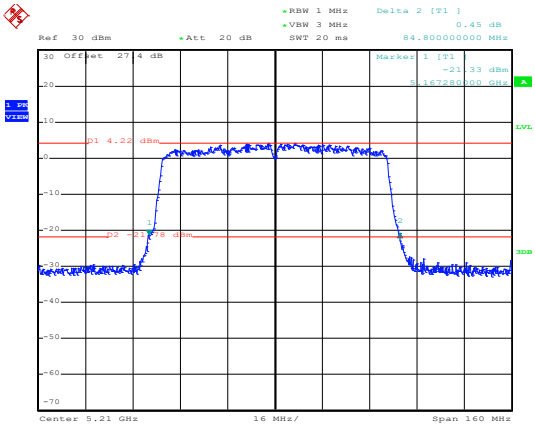
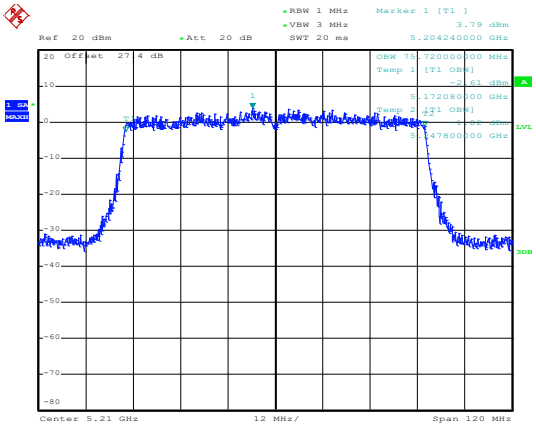
<802.11ac VHT20>

26dB Bandwidth	99% Occupied Bandwidth
	
Date: 27.NOV.2021 10:13:43	Date: 27.NOV.2021 10:14:20

<802.11ac VHT40>

26dB Bandwidth	99% Occupied Bandwidth
	
Date: 27.NOV.2021 11:20:08	Date: 27.NOV.2021 11:20:44

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	
Date: 27.NOV.2021 12:15:56	Date: 27.NOV.2021 12:17:05

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.

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

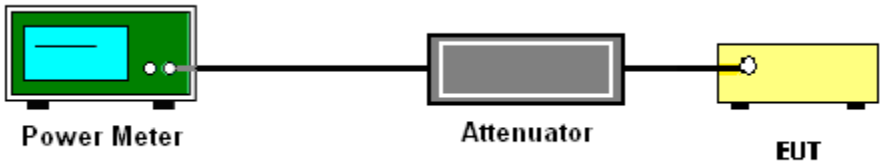
3.2.3 Test Procedures

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

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

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

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.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

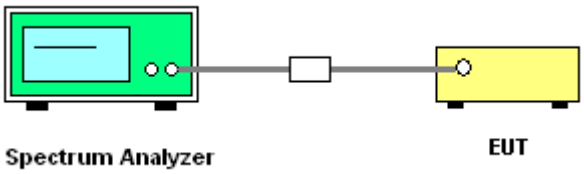
 # Method SA-3 #

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

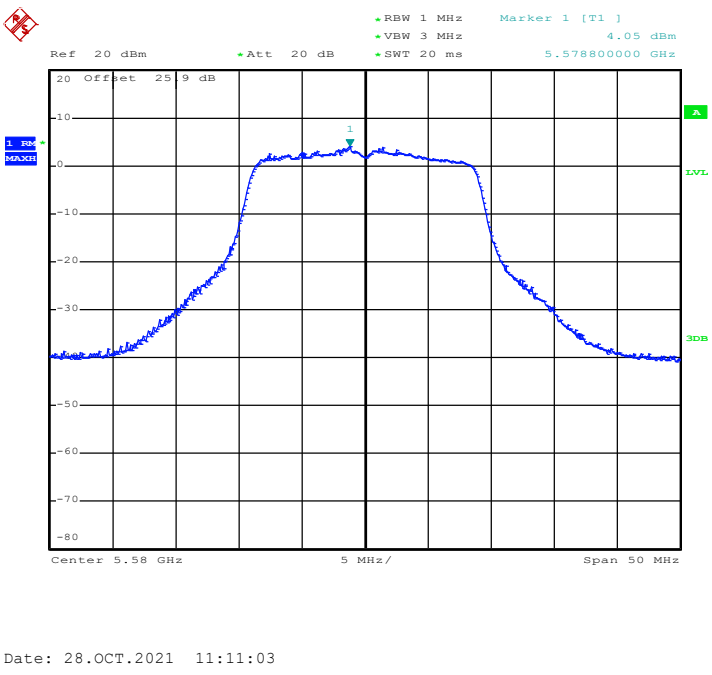
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 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 fallen in restricted bands shall comply with the general field strength limits as below table:

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

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

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

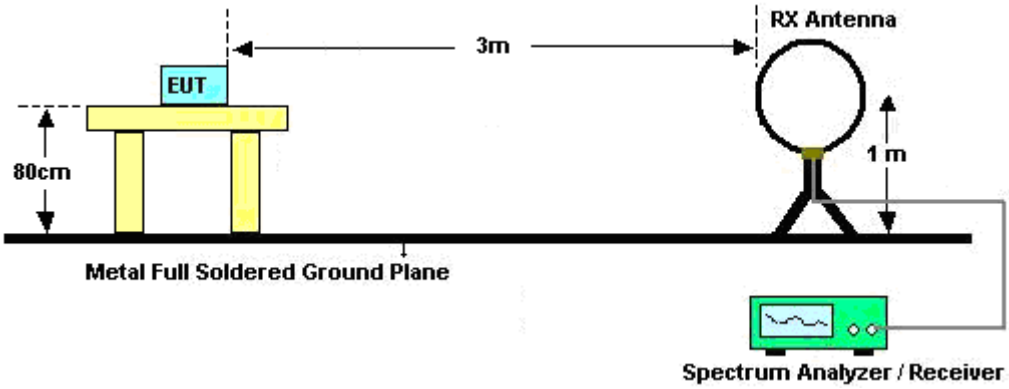
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

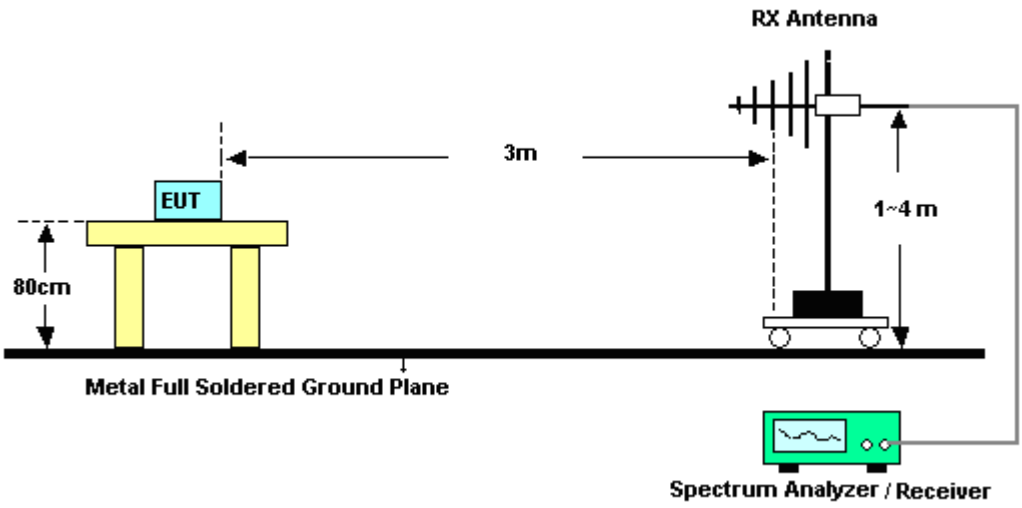
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree 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 6dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

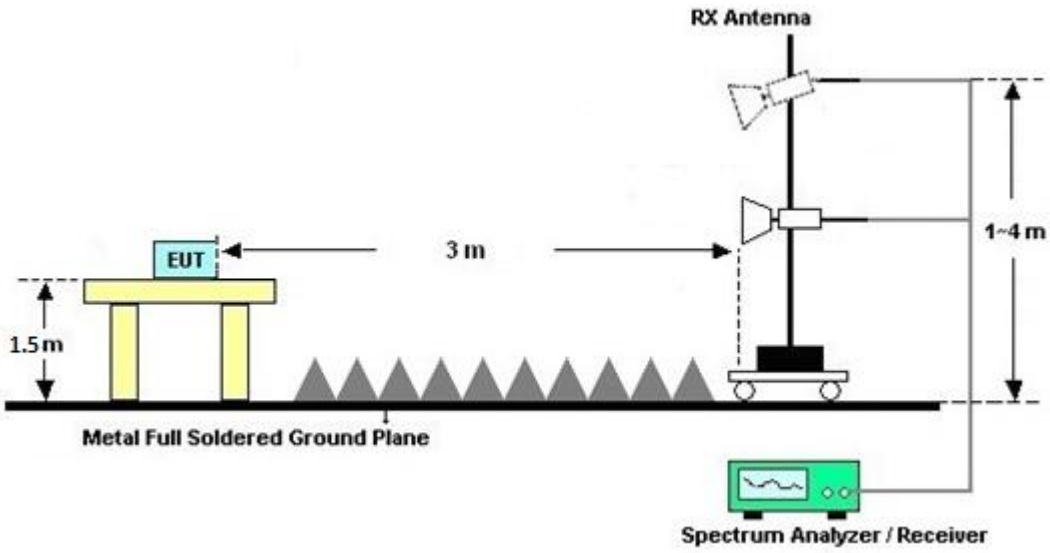
For radiated emissions below 30MHz



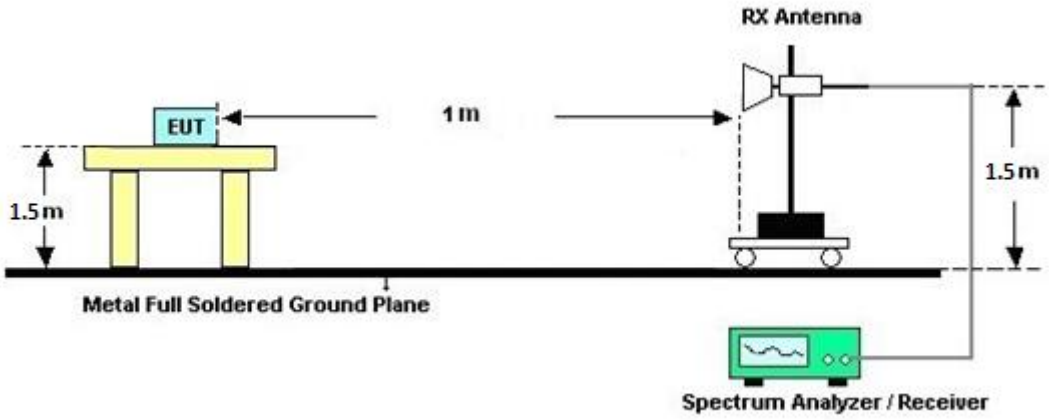
For radiated emissions from 30MHz to 1GHz



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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

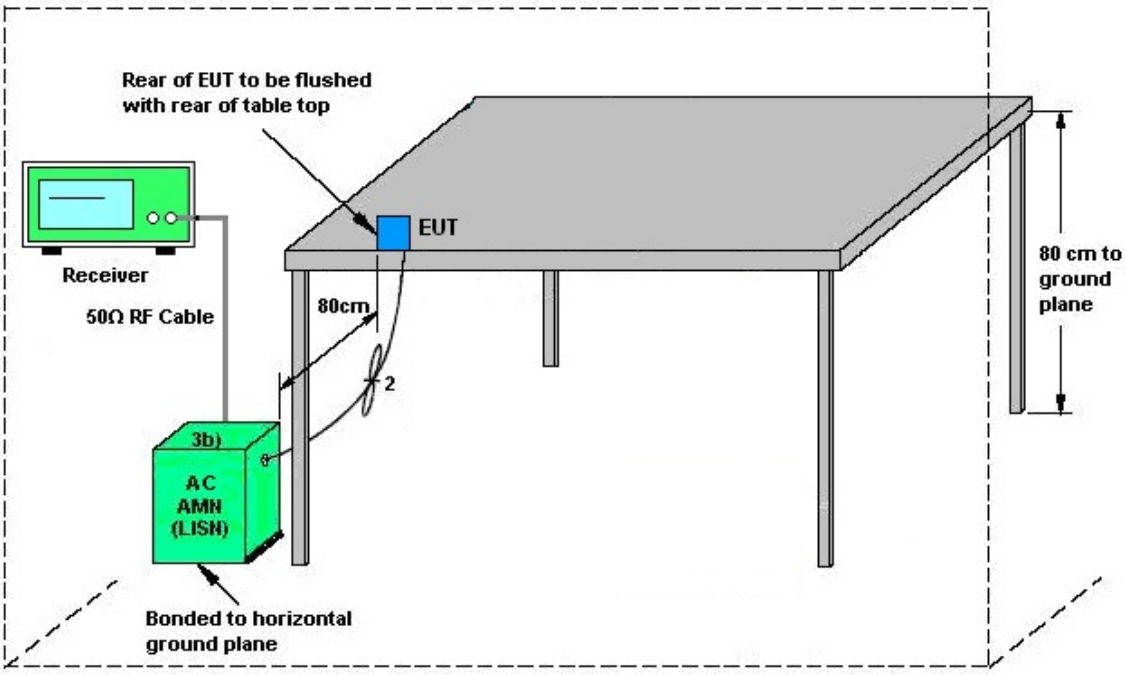
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Oct. 24, 2021~ Oct. 28, 2021	Jan. 03, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 13, 2021	Oct. 24, 2021~ Oct. 28, 2021	Jul. 12, 2022	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 11, 2020	Oct. 24, 2021~ Oct. 28, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 16, 2020	Oct. 24, 2021~ Oct. 28, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 18, 2021	Oct. 24, 2021~ Oct. 28, 2021	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 27, 2020	Oct. 24, 2021~ Oct. 25, 2021	Oct. 26, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 26, 2021	Oct. 26, 2021~ Oct. 28, 2021	Oct. 25, 2022	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 11, 2020	Oct. 24, 2021~ Oct. 28, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2021	Oct. 24, 2021~ Oct. 28, 2021	Mar. 17, 2022	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 24, 2021~ Oct. 28, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 24, 2021~ Oct. 28, 2021	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Oct. 24, 2021~ Oct. 28, 2021	N/A	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 10, 2021	Oct. 24, 2021~ Oct. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 10, 2021	Oct. 24, 2021~ Oct. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 22, 2021	Oct. 24, 2021~ Oct. 28, 2021	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Oct. 24, 2021~ Oct. 28, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 10, 2021	Oct. 24, 2021~ Oct. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Oct. 24, 2021~ Oct. 28, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Oct. 24, 2021~ Oct. 28, 2021	Sep. 13, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Oct. 24, 2021~ Oct. 28, 2021	Mar. 10, 2022	Radiation (03CH13-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Oct. 14, 2021~ Nov. 27, 2021	Feb. 28, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12	10MHz~6GHz	Dec. 16, 2020	Oct. 14, 2021~ Nov. 27, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	Oct. 14, 2021~ Nov. 27, 2021	Jan. 20, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Oct. 14, 2021~ Nov. 27, 2021	Mar. 16, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 27, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Oct. 27, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Oct. 27, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Oct. 27, 2021	Nov. 30, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Oct. 27, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 27, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Oct. 27, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Oct. 27, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.0 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))	5.9 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jacob Yu	Temperature:	22.3~24.1	°C
Test Date:	2021/10/14-2021/11/27	Relative Humidity:	51.2~55.5	%

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	16.75	-	22.45	-	-		22.24	-		
11a	6Mbps	1	44	5220	16.65	-	22.20	-	-		22.21	-		
11a	6Mbps	1	48	5240	16.65	-	22.80	-	-		22.21	-		
VHT20	MCS0	1	36	5180	17.90	-	23.30	-	-		22.53	-		
VHT20	MCS0	1	44	5220	17.85	-	23.90	-	-		22.52	-		
VHT20	MCS0	1	48	5240	17.90	-	23.75	-	-		22.53	-		
VHT40	MCS0	1	38	5190	36.60	-	41.58	-	-		23.01	-		
VHT40	MCS0	1	46	5230	36.50	-	40.59	-	-		23.01	-		
VHT80	MCS0	1	42	5210	75.72	-	84.80	-	-		23.01	-		

Report Number : FR193007D

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	13.00	-		24.00	-	-0.54	-		Pass
11a	6Mbps	1	44	5220	12.90	-		24.00	-	-0.54	-		Pass
11a	6Mbps	1	48	5240	12.70	-		24.00	-	-0.54	-		Pass
HT20	MCS0	1	36	5180	12.70	-		24.00	-	-0.54	-		Pass
HT20	MCS0	1	44	5220	12.60	-		24.00	-	-0.54	-		Pass
HT20	MCS0	1	48	5240	12.90	-		24.00	-	-0.54	-		Pass
HT40	MCS0	1	38	5190	12.80	-		24.00	-	-0.54	-		Pass
HT40	MCS0	1	46	5230	12.80	-		24.00	-	-0.54	-		Pass
VHT20	MCS0	1	36	5180	12.80	-		24.00	-	-0.54	-		Pass
VHT20	MCS0	1	44	5220	12.70	-		24.00	-	-0.54	-		Pass
VHT20	MCS0	1	48	5240	13.00	-		24.00	-	-0.54	-		Pass
VHT40	MCS0	1	38	5190	12.90	-		24.00	-	-0.54	-		Pass
VHT40	MCS0	1	46	5230	12.90	-		24.00	-	-0.54	-		Pass
VHT80	MCS0	1	42	5210	13.00	-		24.00	-	-0.54	-		Pass

Report Number : FR193007D

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	3.40	-		11.00	-	-0.54	-		Pass
11a	6Mbps	1	44	5220	3.39	-		11.00	-	-0.54	-		Pass
11a	6Mbps	1	48	5240	3.48	-		11.00	-	-0.54	-		Pass
VHT20	MCS0	1	36	5180	3.57	-		11.00	-	-0.54	-		Pass
VHT20	MCS0	1	44	5220	3.93	-		11.00	-	-0.54	-		Pass
VHT20	MCS0	1	48	5240	3.80	-		11.00	-	-0.54	-		Pass
VHT40	MCS0	1	38	5190	-0.20	-		11.00	-	-0.54	-		Pass
VHT40	MCS0	1	46	5230	0.21	-		11.00	-	-0.54	-		Pass
VHT80	MCS0	1	42	5210	-1.95	-		11.00	-	-0.54	-		Pass

Report Number : FR193007D

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	16.75	-	22.95	-	23.24	-	29.24	-	23.98	-	
11a	6Mbps	1	60	5300	16.60	-	22.10	-	23.20	-	29.20	-	23.98	-	
11a	6Mbps	1	64	5320	16.75	-	22.80	-	23.24	-	29.24	-	23.98	-	
VHT20	MCS0	1	52	5260	17.90	-	24.10	-	23.53	-	29.53	-	23.98	-	
VHT20	MCS0	1	60	5300	17.85	-	22.80	-	23.52	-	29.52	-	23.98	-	
VHT20	MCS0	1	64	5320	17.90	-	24.25	-	23.53	-	29.53	-	23.98	-	
VHT40	MCS0	1	54	5270	36.60	-	41.22	-	23.98	-	30.00	-	23.98	-	
VHT40	MCS0	1	62	5310	36.50	-	41.04	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	75.96	-	83.52	-	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	12.70	-		23.98	-	-1.56	-	26.99	Pass
11a	6Mbps	1	60	5300	13.00	-		23.98	-	-1.56	-	26.99	Pass
11a	6Mbps	1	64	5320	12.80	-		23.98	-	-1.56	-	26.99	Pass
HT20	MCS0	1	52	5260	12.90	-		23.98	-	-1.56	-	26.99	Pass
HT20	MCS0	1	60	5300	12.70	-		23.98	-	-1.56	-	26.99	Pass
HT20	MCS0	1	64	5320	12.90	-		23.98	-	-1.56	-	26.99	Pass
HT40	MCS0	1	54	5270	12.70	-		23.98	-	-1.56	-	26.99	Pass
HT40	MCS0	1	62	5310	12.60	-		23.98	-	-1.56	-	26.99	Pass
VHT20	MCS0	1	52	5260	13.00	-		23.98	-	-1.56	-	26.99	Pass
VHT20	MCS0	1	60	5300	12.80	-		23.98	-	-1.56	-	26.99	Pass
VHT20	MCS0	1	64	5320	13.00	-		23.98	-	-1.56	-	26.99	Pass
VHT40	MCS0	1	54	5270	12.80	-		23.98	-	-1.56	-	26.99	Pass
VHT40	MCS0	1	62	5310	12.70	-		23.98	-	-1.56	-	26.99	Pass
VHT80	MCS0	1	58	5290	13.00	-		23.98	-	-1.56	-	26.99	Pass

Report Number : FR193007D

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	3.43	-		11.00	-	-1.56	-		Pass
11a	6Mbps	1	60	5300	3.59	-		11.00	-	-1.56	-		Pass
11a	6Mbps	1	64	5320	3.16	-		11.00	-	-1.56	-		Pass
VHT20	MCS0	1	52	5260	3.79	-		11.00	-	-1.56	-		Pass
VHT20	MCS0	1	60	5300	3.80	-		11.00	-	-1.56	-		Pass
VHT20	MCS0	1	64	5320	3.63	-		11.00	-	-1.56	-		Pass
VHT40	MCS0	1	54	5270	-0.23	-		11.00	-	-1.56	-		Pass
VHT40	MCS0	1	62	5310	-0.11	-		11.00	-	-1.56	-		Pass
VHT80	MCS0	1	58	5290	-1.93	-		11.00	-	-1.56	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 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	16.75	-	23.10	-	23.24	-	29.24	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.70	-	22.15	-	23.23	-	29.23	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.70	-	22.75	-	23.23	-	29.23	-	23.98	-	----	----
VHT20	MCS0	1	100	5500	17.85	-	23.70	-	23.52	-	29.52	-	23.98	-	----	----
VHT20	MCS0	1	116	5580	17.90	-	23.50	-	23.53	-	29.53	-	23.98	-	----	----
VHT20	MCS0	1	140	5700	17.90	-	23.40	-	23.53	-	29.53	-	23.98	-	----	----
VHT40	MCS0	1	102	5510	36.70	-	41.13	-	23.98	-	30.00	-	23.98	-	----	----
VHT40	MCS0	1	110	5550	36.60	-	41.49	-	23.98	-	30.00	-	23.98	-	----	----
VHT40	MCS0	1	134	5670	36.60	-	41.31	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	75.84	-	84.32	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.08	-	84.64	-	23.98	-	30.00	-	23.98	-	----	----

Report Number : FR193007D

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	13.00	-		23.98	-	-0.05	-	26.99	Pass
11a	6Mbps	1	116	5580	12.90	-		23.98	-	-0.05	-	26.99	Pass
11a	6Mbps	1	140	5700	12.90	-		23.98	-	-0.05	-	26.99	Pass
HT20	MCS0	1	100	5500	12.70	-		23.98	-	-0.05	-	26.99	Pass
HT20	MCS0	1	116	5580	12.60	-		23.98	-	-0.05	-	26.99	Pass
HT20	MCS0	1	140	5700	12.70	-		23.98	-	-0.05	-	26.99	Pass
HT40	MCS0	1	102	5510	12.80	-		23.98	-	-0.05	-	26.99	Pass
HT40	MCS0	1	110	5550	12.90	-		23.98	-	-0.05	-	26.99	Pass
HT40	MCS0	1	134	5670	12.50	-		23.98	-	-0.05	-	26.99	Pass
VHT20	MCS0	1	100	5500	12.80	-		23.98	-	-0.05	-	26.99	Pass
VHT20	MCS0	1	116	5580	12.70	-		23.98	-	-0.05	-	26.99	Pass
VHT20	MCS0	1	140	5700	12.80	-		23.98	-	-0.05	-	26.99	Pass
VHT40	MCS0	1	102	5510	12.90	-		23.98	-	-0.05	-	26.99	Pass
VHT40	MCS0	1	110	5550	13.00	-		23.98	-	-0.05	-	26.99	Pass
VHT40	MCS0	1	134	5670	12.60	-		23.98	-	-0.05	-	26.99	Pass
VHT80	MCS0	1	106	5530	12.90	-		23.98	-	-0.05	-	26.99	Pass
VHT80	MCS0	1	122	5610	12.90	-		23.98	-	-0.05	-	26.99	Pass

Report Number : FR193007D

TEST RESULTS DATA
Power Spectral Density

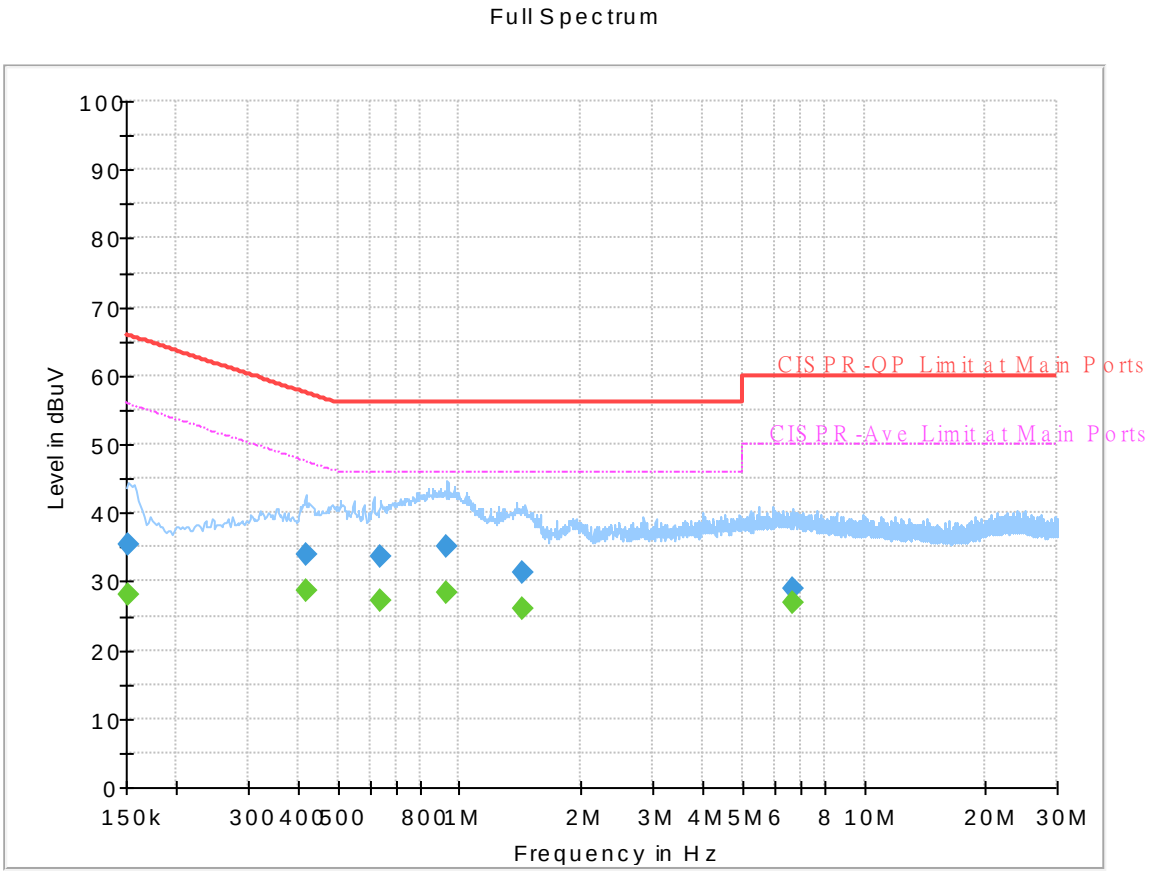
Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	3.73	-		11.00	-	-0.05	-		Pass
11a	6Mbps	1	116	5580	3.83	-		11.00	-	-0.05	-		Pass
11a	6Mbps	1	140	5700	3.78	-		11.00	-	-0.05	-		Pass
VHT20	MCS0	1	100	5500	4.01	-		11.00	-	-0.05	-		Pass
VHT20	MCS0	1	116	5580	4.05	-		11.00	-	-0.05	-		Pass
VHT20	MCS0	1	140	5700	3.90	-		11.00	-	-0.05	-		Pass
VHT40	MCS0	1	102	5510	0.18	-		11.00	-	-0.05	-		Pass
VHT40	MCS0	1	110	5550	0.44	-		11.00	-	-0.05	-		Pass
VHT40	MCS0	1	134	5670	-0.34	-		11.00	-	-0.05	-		Pass
VHT80	MCS0	1	106	5530	-1.86	-		11.00	-	-0.05	-		Pass
VHT80	MCS0	1	122	5610	-2.35	-		11.00	-	-0.05	-		Pass

Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO :	193007
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

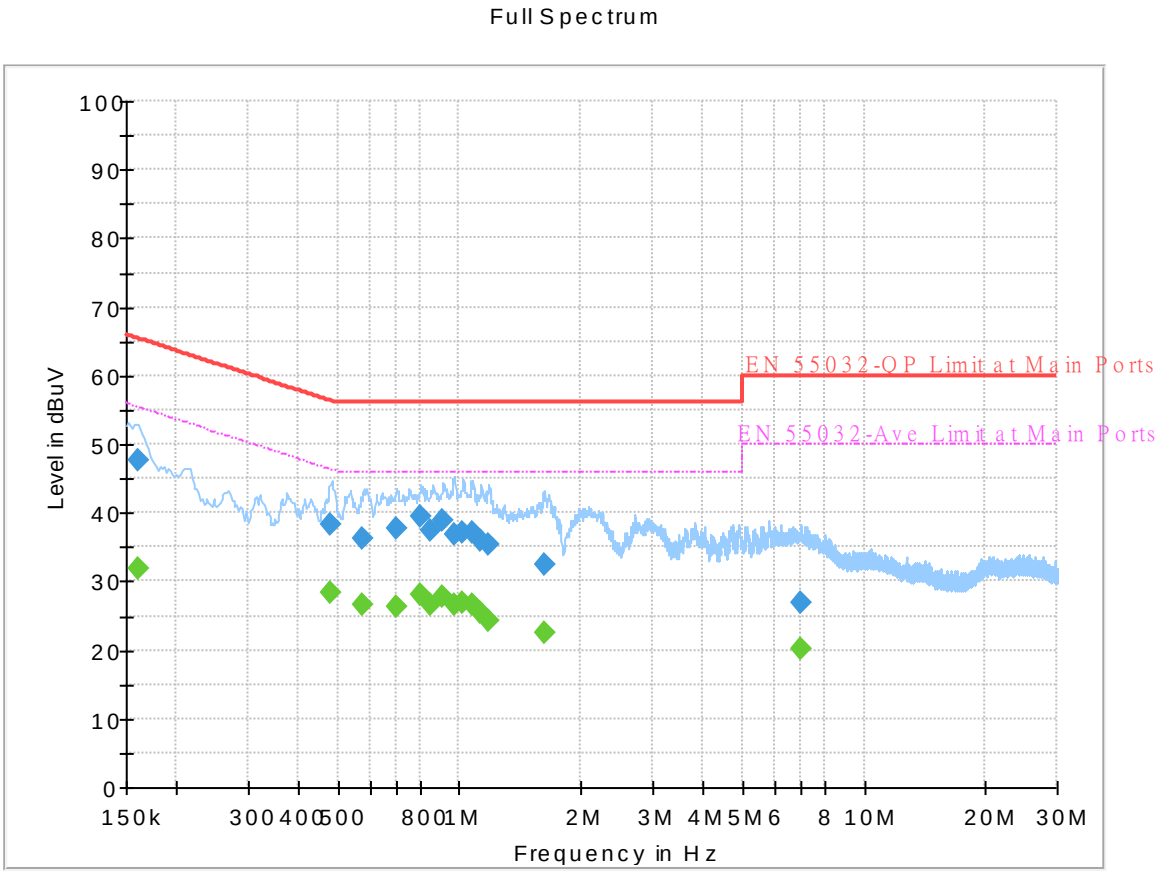


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.20	55.88	27.68	L1	OFF	19.7
0.152250	35.39	---	65.88	30.49	L1	OFF	19.7
0.417750	---	28.68	47.49	18.81	L1	OFF	19.7
0.417750	33.84	---	57.49	23.65	L1	OFF	19.7
0.638250	---	27.27	46.00	18.73	L1	OFF	19.9
0.638250	33.61	---	56.00	22.39	L1	OFF	19.9
0.933000	---	28.44	46.00	17.56	L1	OFF	20.2
0.933000	35.21	---	56.00	20.79	L1	OFF	20.2
1.437000	---	26.10	46.00	19.90	L1	OFF	20.2
1.437000	31.39	---	56.00	24.61	L1	OFF	20.2
6.648000	---	26.78	50.00	23.22	L1	OFF	20.1
6.648000	28.86	---	60.00	31.14	L1	OFF	20.1

EUT Information

Project No :	193007
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	47.58	---	65.40	17.82	N	OFF	19.7
0.161250	---	31.96	55.40	23.44	N	OFF	19.7
0.480750	38.29	---	56.33	18.04	N	OFF	19.8
0.480750	---	28.34	46.33	17.99	N	OFF	19.8
0.577500	36.30	---	56.00	19.70	N	OFF	19.9
0.577500	---	26.66	46.00	19.34	N	OFF	19.9
0.701250	37.71	---	56.00	18.29	N	OFF	20.0
0.701250	---	26.41	46.00	19.59	N	OFF	20.0
0.804750	39.41	---	56.00	16.59	N	OFF	20.1
0.804750	---	28.08	46.00	17.92	N	OFF	20.1
0.849750	37.44	---	56.00	18.56	N	OFF	20.2
0.849750	---	26.70	46.00	19.30	N	OFF	20.2
0.912750	38.79	---	56.00	17.21	N	OFF	20.2
0.912750	---	27.72	46.00	18.28	N	OFF	20.2
0.975750	36.86	---	56.00	19.14	N	OFF	20.2
0.975750	---	26.48	46.00	19.52	N	OFF	20.2
1.018500	37.22	---	56.00	18.78	N	OFF	20.2
1.018500	---	26.79	46.00	19.21	N	OFF	20.2
1.074750	37.16	---	56.00	18.84	N	OFF	20.2
1.074750	---	26.68	46.00	19.32	N	OFF	20.2
1.126500	35.92	---	56.00	20.08	N	OFF	20.2
1.126500	---	25.32	46.00	20.68	N	OFF	20.2
1.182750	35.29	---	56.00	20.71	N	OFF	20.2
1.182750	---	24.23	46.00	21.77	N	OFF	20.2
1.614750	32.52	---	56.00	23.48	N	OFF	20.2
1.614750	---	22.43	46.00	23.57	N	OFF	20.2
6.985500	---	20.17	50.00	29.83	N	OFF	20.1
6.985500	26.80	---	60.00	33.20	N	OFF	20.1

Appendix C. Radiated Spurious Emission

Test Engineer :	Yuan Lee, Jacky Hong, and Wilson Wu	Temperature :	20 ~ 25°C
		Relative Humidity :	50 ~ 60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.98	57.7	-16.3	74	46.63	32.2	6.28	27.41	117	206	P	H
		5141.44	42.38	-11.62	54	31.33	32.18	6.28	27.41	117	206	A	H
	*	5180	101.13	-	-	90.17	32.08	6.28	27.4	116	207	P	H
	*	5180	93.4	-	-	82.44	32.08	6.28	27.4	116	207	A	H
													H
													H
		5094.64	52.75	-21.25	74	41.82	32.1	6.26	27.43	269	211	P	V
		5058.76	42.14	-11.86	54	31.22	32.1	6.25	27.43	269	211	A	V
	*	5180	99.73	-	-	88.77	32.08	6.28	27.4	265	212	P	V
	*	5180	92	-	-	81.04	32.08	6.28	27.4	265	212	A	V
													V
													V
802.11a CH 44 5220MHz		5146.38	52.61	-21.39	74	41.55	32.19	6.28	27.41	100	104	P	H
		5049.92	42.18	-11.82	54	31.27	32.1	6.25	27.44	100	104	A	H
	*	5220	102.51	-	-	91.68	31.92	6.3	27.39	100	104	P	H
	*	5220	94.72	-	-	83.89	31.92	6.3	27.39	100	104	A	H
		5441.24	50.28	-23.72	74	39.32	31.9	6.4	27.34	100	104	P	H
		5459.72	40.87	-13.13	54	29.85	31.94	6.41	27.33	100	104	A	H
		5101.92	51.91	-22.09	74	40.96	32.1	6.27	27.42	100	67	P	V
		5053.56	42.17	-11.83	54	31.26	32.1	6.25	27.44	100	67	A	V
	*	5220	99.6	-	-	88.77	31.92	6.3	27.39	100	67	P	V
	*	5220	91.89	-	-	81.06	31.92	6.3	27.39	100	67	A	V
		5442.08	51.6	-22.4	74	40.64	31.9	6.4	27.34	100	67	P	V
		5460	40.86	-13.14	54	29.84	31.94	6.41	27.33	100	67	A	V

802.11a CH 48 5240MHz		5021.32	51.83	-22.17	74	41.09	31.93	6.25	27.44	100	104	P	H
		5050.18	42.16	-11.84	54	31.25	32.1	6.25	27.44	100	104	A	H
	*	5240	103.05	-	-	92.29	31.84	6.31	27.39	100	104	P	H
	*	5240	95.3	-	-	84.54	31.84	6.31	27.39	100	104	A	H
		5453.56	51.32	-22.68	74	40.33	31.91	6.41	27.33	100	104	P	H
		5460	40.85	-13.15	54	29.83	31.94	6.41	27.33	100	104	A	H
		5036.66	52.22	-21.78	74	41.39	32.02	6.25	27.44	106	68	P	V
		5048.88	42.13	-11.87	54	31.23	32.09	6.25	27.44	106	68	A	V
	*	5240	99.97	-	-	89.21	31.84	6.31	27.39	106	68	P	V
	*	5240	92.29	-	-	81.53	31.84	6.31	27.39	106	68	A	V
		5447.96	50.19	-23.81	74	39.22	31.9	6.4	27.33	106	68	P	V
		5459.72	40.81	-13.19	54	29.79	31.94	6.41	27.33	106	68	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	55.78	-12.42	68.2	62.15	39.94	10.15	56.46	100	173	P	H
		10971	49.26	-24.74	74	53.85	40.76	10.46	55.81	-	-	P	H
		10971	38.03	-15.97	54	42.62	40.76	10.46	55.81	-	-	A	H
		14480	51.05	-22.95	74	53.62	41.82	11.71	56.1	-	-	P	H
		14480	39.96	-14.04	54	42.53	41.82	11.71	56.1	-	-	A	H
		15540	45.98	-28.02	74	50.69	39.44	12.03	56.18	-	-	P	H
		17956	55.71	-18.29	74	51.96	47.31	13.16	56.72	-	-	P	H
		17956	44.79	-9.21	54	41.04	47.31	13.16	56.72	-	-	A	H
													H
													H
													H
													H
		10360	53.07	-15.13	68.2	59.44	39.94	10.15	56.46	100	228	P	V
		10927	49.37	-24.63	74	53.96	40.85	10.43	55.87	-	-	P	V
		10927	38.14	-15.86	54	42.73	40.85	10.43	55.87	-	-	A	V
		14491	49.35	-24.65	74	51.85	41.86	11.72	56.08	-	-	P	V
		14491	39.99	-14.01	54	42.49	41.86	11.72	56.08	-	-	A	V
		15540	46.35	-27.65	74	51.06	39.44	12.03	56.18	-	-	P	V
		17989	57.08	-16.92	74	52.41	48.2	13.19	56.72	-	-	P	V
		17989	45.98	-8.02	54	41.31	48.2	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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 44 5220MHz		10440	54.66	-13.54	68.2	60.71	40.22	10.19	56.46	100	171	P	H
		10927	49.47	-24.53	74	54.06	40.85	10.43	55.87	-	-	P	H
		10927	38.15	-15.85	54	42.74	40.85	10.43	55.87	-	-	A	H
		14491	49.77	-24.23	74	52.27	41.86	11.72	56.08	-	-	P	H
		14491	39.74	-14.26	54	42.24	41.86	11.72	56.08	-	-	A	H
		15660	45.37	-28.63	74	50.36	38.9	12.04	55.93	-	-	P	H
		17978	56.59	-17.41	74	52.21	47.91	13.19	56.72	-	-	P	H
		17978	45.68	-8.32	54	41.3	47.91	13.19	56.72	-	-	A	H
													H
													H
													H
													H
		10440	53.92	-14.28	68.2	59.97	40.22	10.19	56.46	100	223	P	V
		11444	49.52	-24.48	74	54.61	40.03	10.66	55.78	-	-	P	V
		11444	37.54	-16.46	54	42.63	40.03	10.66	55.78	-	-	A	V
		14480	50.64	-23.36	74	53.21	41.82	11.71	56.1	-	-	P	V
		14480	39.94	-14.06	54	42.51	41.82	11.71	56.1	-	-	A	V
		15660	44.76	-29.24	74	49.75	38.9	12.04	55.93	-	-	P	V
		17978	55.67	-18.33	74	51.29	47.91	13.19	56.72	-	-	P	V
		17978	45.51	-8.49	54	41.13	47.91	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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 48 5240MHz		10480	56.38	-11.82	68.2	62.29	40.34	10.21	56.46	100	167	P	H
		10630	49.4	-24.6	74	55.1	40.29	10.29	56.28	-	-	P	H
		10630	37.07	-16.93	54	42.77	40.29	10.29	56.28	-	-	A	H
		14491	49.49	-24.51	74	51.99	41.86	11.72	56.08	-	-	P	H
		14491	40.14	-13.86	54	42.64	41.86	11.72	56.08	-	-	A	H
		15720	45.07	-28.93	74	50.14	38.68	12.05	55.8	-	-	P	H
		17978	55.84	-18.16	74	51.46	47.91	13.19	56.72	-	-	P	H
		17978	45.5	-8.5	54	41.12	47.91	13.19	56.72	-	-	A	H
													H
													H
													H
													H
		10480	55.09	-13.11	68.2	61	40.34	10.21	56.46	101	225	P	V
		10894	48.99	-25.01	74	53.6	40.89	10.42	55.92	-	-	P	V
		10894	37.92	-16.08	54	42.53	40.89	10.42	55.92	-	-	A	V
		14491	50.04	-23.96	74	52.54	41.86	11.72	56.08	-	-	P	V
		14491	39.53	-14.47	54	42.03	41.86	11.72	56.08	-	-	A	V
		15720	45.81	-28.19	74	50.88	38.68	12.05	55.8	-	-	P	V
		17967	55.36	-18.64	74	51.3	47.61	13.17	56.72	-	-	P	V
		17967	44.95	-9.05	54	40.89	47.61	13.17	56.72	-	-	A	V
													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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		5139.36	52.34	-21.66	74	41.3	32.18	6.27	27.41	107	103	P	H
		5122.2	42.28	-11.72	54	31.29	32.14	6.27	27.42	107	103	A	H
	*	5180	102.16	-	-	91.2	32.08	6.28	27.4	107	103	P	H
	*	5180	94.34	-	-	83.38	32.08	6.28	27.4	107	103	A	H
													H
													H
		5075.92	54.16	-19.84	74	43.23	32.1	6.26	27.43	100	191	P	V
		5052.26	42.2	-11.8	54	31.29	32.1	6.25	27.44	100	191	A	V
	*	5180	99.73	-	-	88.77	32.08	6.28	27.4	100	191	P	V
	*	5180	91.66	-	-	80.7	32.08	6.28	27.4	100	191	A	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		5126.62	52.77	-21.23	74	41.77	32.15	6.27	27.42	107	104	P	H
		5049.66	42.18	-11.82	54	31.27	32.1	6.25	27.44	107	104	A	H
	*	5220	102.3	-	-	91.47	31.92	6.3	27.39	107	104	P	H
	*	5220	94.37	-	-	83.54	31.92	6.3	27.39	107	104	A	H
		5425	50.74	-23.26	74	39.78	31.9	6.4	27.34	107	104	P	H
		5458.88	40.88	-13.12	54	29.86	31.94	6.41	27.33	107	104	A	H
		5078.78	53.19	-20.81	74	42.26	32.1	6.26	27.43	100	178	P	V
		5050.44	42.18	-11.82	54	31.27	32.1	6.25	27.44	100	178	A	V
	*	5220	99.24	-	-	88.41	31.92	6.3	27.39	100	178	P	V
	*	5220	91.44	-	-	80.61	31.92	6.3	27.39	100	178	A	V
		5384.12	51.5	-22.5	74	40.67	31.8	6.38	27.35	100	178	P	V
		5459.44	40.88	-13.12	54	29.86	31.94	6.41	27.33	100	178	A	V

802.11ac VHT20 CH 48 5240MHz		5087.36	53.46	-20.54	74	42.53	32.1	6.26	27.43	100	104	P	H
		5049.92	42.15	-11.85	54	31.24	32.1	6.25	27.44	100	104	A	H
	*	5240	103.26	-	-	92.5	31.84	6.31	27.39	100	104	P	H
	*	5240	95.34	-	-	84.58	31.84	6.31	27.39	100	104	A	H
		5441.52	51.6	-22.4	74	40.64	31.9	6.4	27.34	100	104	P	H
		5459.72	40.87	-13.13	54	29.85	31.94	6.41	27.33	100	104	A	H
		5069.94	52.82	-21.18	74	41.89	32.1	6.26	27.43	100	188	P	V
		5057.46	42.14	-11.86	54	31.23	32.1	6.25	27.44	100	188	A	V
	*	5240	99.52	-	-	88.76	31.84	6.31	27.39	100	188	P	V
	*	5240	91.43	-	-	80.67	31.84	6.31	27.39	100	188	A	V
		5410.72	50.56	-23.44	74	39.61	31.9	6.39	27.34	100	188	P	V
		5459.72	40.81	-13.19	54	29.79	31.94	6.41	27.33	100	188	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	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	59.73	-8.47	68.2	66.1	39.94	10.15	56.46	100	162	P	H
		10817	49.61	-24.39	74	54.52	40.73	10.38	56.02	-	-	P	H
		10817	37.66	-16.34	54	42.57	40.73	10.38	56.02	-	-	A	H
		14491	49.8	-24.2	74	52.3	41.86	11.72	56.08	-	-	P	H
		14491	39.87	-14.13	54	42.37	41.86	11.72	56.08	-	-	A	H
		15540	46.75	-27.25	74	51.46	39.44	12.03	56.18	-	-	P	H
		17967	55.92	-18.08	74	51.86	47.61	13.17	56.72	-	-	P	H
		17967	45.18	-8.82	54	41.12	47.61	13.17	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 36		10360	52.57	-15.63	68.2	58.94	39.94	10.15	56.46	100	230	P	V
5180MHz		10960	49.31	-24.69	74	53.91	40.78	10.45	55.83	-	-	P	V
		10960	37.86	-16.14	54	42.46	40.78	10.45	55.83	-	-	A	V
		14480	49.89	-24.11	74	52.46	41.82	11.71	56.1	-	-	P	V
		14480	40.01	-13.99	54	42.58	41.82	11.71	56.1	-	-	A	V
		15540	46.03	-27.97	74	50.74	39.44	12.03	56.18	-	-	P	V
		17989	55.61	-18.39	74	50.94	48.2	13.19	56.72	-	-	P	V
		17989	45.78	-8.22	54	41.11	48.2	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10440	56.15	-12.05	68.2	62.2	40.22	10.19	56.46	100	165	P	H
		10773	49.51	-24.49	74	54.58	40.65	10.36	56.08	-	-	P	H
		10773	37.55	-16.45	54	42.62	40.65	10.36	56.08	-	-	A	H
		14491	50.19	-23.81	74	52.69	41.86	11.72	56.08	-	-	P	H
		14491	39.9	-14.1	54	42.4	41.86	11.72	56.08	-	-	A	H
		15660	45.03	-28.97	74	50.02	38.9	12.04	55.93	-	-	P	H
		18000	56.03	-17.97	74	51.05	48.5	13.2	56.72	-	-	P	H
		18000	46.03	-7.97	54	41.05	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 44		10440	54.97	-13.23	68.2	61.02	40.22	10.19	56.46	100	233	P	V
5220MHz		10916	49.28	-24.72	74	53.87	40.87	10.43	55.89	-	-	P	V
		10916	37.83	-16.17	54	42.42	40.87	10.43	55.89	-	-	A	V
		14480	50.25	-23.75	74	52.82	41.82	11.71	56.1	-	-	P	V
		14480	39.93	-14.07	54	42.5	41.82	11.71	56.1	-	-	A	V
		15660	45.13	-28.87	74	50.12	38.9	12.04	55.93	-	-	P	V
		18000	56.19	-17.81	74	51.21	48.5	13.2	56.72	-	-	P	V
		18000	46.3	-7.7	54	41.32	48.5	13.2	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10480	59.75	-8.45	68.2	65.66	40.34	10.21	56.46	100	171	P	H
		10894	49.34	-24.66	74	53.95	40.89	10.42	55.92	-	-	P	H
		10894	37.67	-16.33	54	42.28	40.89	10.42	55.92	-	-	A	H
		14491	49.54	-24.46	74	52.04	41.86	11.72	56.08	-	-	P	H
		14491	39.8	-14.2	54	42.3	41.86	11.72	56.08	-	-	A	H
		15720	45.12	-28.88	74	50.19	38.68	12.05	55.8	-	-	P	H
		18000	56.27	-17.73	74	51.29	48.5	13.2	56.72	-	-	P	H
		18000	46.1	-7.9	54	41.12	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 48		10480	55.86	-12.34	68.2	61.77	40.34	10.21	56.46	100	226	P	V
5240MHz		10927	49.44	-24.56	74	54.03	40.85	10.43	55.87	-	-	P	V
		10927	37.74	-16.26	54	42.33	40.85	10.43	55.87	-	-	A	V
		14480	50.14	-23.86	74	52.71	41.82	11.71	56.1	-	-	P	V
		14480	39.89	-14.11	54	42.46	41.82	11.71	56.1	-	-	A	V
		15720	44.87	-29.13	74	49.94	38.68	12.05	55.8	-	-	P	V
		18000	56.1	-17.9	74	51.12	48.5	13.2	56.72	-	-	P	V
		18000	45.96	-8.04	54	40.98	48.5	13.2	56.72	-	-	A	V
													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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5149.24	55.19	-18.81	74	44.12	32.2	6.28	27.41	103	103	P	H
		5149.24	48.65	-5.35	54	37.58	32.2	6.28	27.41	103	103	A	H
	*	5190	99.73	-	-	88.8	32.04	6.29	27.4	103	103	P	H
	*	5190	91.9	-	-	80.97	32.04	6.29	27.4	103	103	A	H
		5409.32	51.13	-22.87	74	40.18	31.9	6.39	27.34	103	103	P	H
		5455.8	42.2	-11.8	54	31.2	31.92	6.41	27.33	103	103	A	H
		5149.76	53.62	-20.38	74	42.55	32.2	6.28	27.41	101	70	P	V
		5150	46.4	-7.6	54	35.33	32.2	6.28	27.41	101	70	A	V
	*	5190	96.52	-	-	85.59	32.04	6.29	27.4	101	70	P	V
	*	5190	88.94	-	-	78.01	32.04	6.29	27.4	101	70	A	V
		5438.72	50.65	-23.35	74	39.69	31.9	6.4	27.34	101	70	P	V
		5459.72	42.19	-11.81	54	31.17	31.94	6.41	27.33	101	70	A	V
802.11ac VHT40 CH 46 5230MHz		5061.1	52.16	-21.84	74	41.23	32.1	6.26	27.43	104	104	P	H
		5064.48	43.93	-10.07	54	33	32.1	6.26	27.43	104	104	A	H
	*	5230	100.26	-	-	89.47	31.88	6.3	27.39	104	104	P	H
	*	5230	92.48	-	-	81.69	31.88	6.3	27.39	104	104	A	H
		5417.44	50.94	-23.06	74	39.98	31.9	6.4	27.34	104	104	P	H
		5458.32	42.31	-11.69	54	31.3	31.93	6.41	27.33	104	104	A	H
		5051.74	53.07	-20.93	74	42.16	32.1	6.25	27.44	100	59	P	V
		5088.66	43.82	-10.18	54	32.89	32.1	6.26	27.43	100	59	A	V
	*	5230	96.93	-	-	86.14	31.88	6.3	27.39	100	59	P	V
	*	5230	88.99	-	-	78.2	31.88	6.3	27.39	100	59	A	V
		5452.44	50.11	-23.89	74	39.12	31.91	6.41	27.33	100	59	P	V
		5438.44	42.53	-11.47	54	31.57	31.9	6.4	27.34	100	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 802.11ac VHT40 (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)
		10380	55.68	-12.52	68.2	61.96	40.02	10.16	56.46	100	161	P	H
		10938	49.33	-24.67	74	53.93	40.82	10.44	55.86	-	-	P	H
		10938	38.62	-15.38	54	43.22	40.82	10.44	55.86	-	-	A	H
		14480	49.55	-24.45	74	52.12	41.82	11.71	56.1	-	-	P	H
		14480	40.73	-13.27	54	43.3	41.82	11.71	56.1	-	-	A	H
		15570	46.37	-27.63	74	51.14	39.32	12.03	56.12	-	-	P	H
		17989	55.71	-18.29	74	51.04	48.2	13.19	56.72	-	-	P	H
		17989	47.85	-6.15	54	43.18	48.2	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 38		10380	52.5	-15.7	68.2	58.78	40.02	10.16	56.46	391	113	P	V
5190MHz		10916	49.41	-24.59	74	54	40.87	10.43	55.89	-	-	P	V
		10916	38.55	-15.45	54	43.14	40.87	10.43	55.89	-	-	A	V
		14480	49.41	-24.59	74	51.98	41.82	11.71	56.1	-	-	P	V
		14480	40.69	-13.31	54	43.26	41.82	11.71	56.1	-	-	A	V
		15570	45.98	-28.02	74	50.75	39.32	12.03	56.12	-	-	P	V
		17978	55.7	-18.3	74	51.32	47.91	13.19	56.72	-	-	P	V
		17978	48.01	-5.99	54	43.63	47.91	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10460	54.66	-13.54	68.2	60.64	40.28	10.2	56.46	100	162	P	H
		10608	48.87	-25.13	74	54.68	40.22	10.28	56.31	-	-	P	H
		10608	37.53	-16.47	54	43.34	40.22	10.28	56.31	-	-	A	H
		14491	49.05	-24.95	74	51.55	41.86	11.72	56.08	-	-	P	H
		14491	40.87	-13.13	54	43.37	41.86	11.72	56.08	-	-	A	H
		15690	45.14	-28.86	74	50.21	38.75	12.04	55.86	-	-	P	H
		18000	55.68	-18.32	74	50.7	48.5	13.2	56.72	-	-	P	H
		18000	48.07	-5.93	54	43.09	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 46		10460	50.46	-17.74	68.2	56.44	40.28	10.2	56.46	400	111	P	V
5230MHz		10916	49.08	-24.92	74	53.67	40.87	10.43	55.89	-	-	P	V
		10916	38.77	-15.23	54	43.36	40.87	10.43	55.89	-	-	A	V
		14491	50.01	-23.99	74	52.51	41.86	11.72	56.08	-	-	P	V
		14491	40.78	-13.22	54	43.28	41.86	11.72	56.08	-	-	A	V
		15690	44.45	-29.55	74	49.52	38.75	12.04	55.86	-	-	P	V
		17989	55.68	-18.32	74	51.01	48.2	13.19	56.72	-	-	P	V
		17989	48.18	-5.82	54	43.51	48.2	13.19	56.72	-	-	A	V
													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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5144.04	56.66	-17.34	74	44.7	32.19	6.28	26.51	121	101	P	H
		5149.76	50.59	-3.41	54	38.62	32.2	6.28	26.51	121	101	A	H
	*	5210	97.75	-	-	86.01	31.96	6.3	26.52	121	101	P	H
	*	5210	90.25	-	-	78.51	31.96	6.3	26.52	121	101	A	H
		5449.08	50.83	-23.17	74	39.08	31.9	6.4	26.55	121	101	P	H
		5455.52	43.19	-10.81	54	31.41	31.92	6.41	26.55	121	101	A	H
		5145.86	54.24	-19.76	74	42.28	32.19	6.28	26.51	100	72	P	V
		5147.94	46.97	-7.03	54	35	32.2	6.28	26.51	100	72	A	V
	*	5210	94.22	-	-	82.48	31.96	6.3	26.52	100	72	P	V
	*	5210	86.52	-	-	74.78	31.96	6.3	26.52	100	72	A	V
		5382.16	51.62	-22.38	74	39.99	31.79	6.38	26.54	100	72	P	V
		5454.96	43.22	-10.78	54	31.44	31.92	6.41	26.55	100	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	52.12	-16.08	68.2	58.24	40.16	10.18	56.46	100	165	P	H
		10927	49.1	-24.9	74	53.69	40.85	10.43	55.87	-	-	P	H
		10927	38.65	-15.35	54	43.24	40.85	10.43	55.87	-	-	A	H
		14491	50.08	-23.92	74	52.58	41.86	11.72	56.08	-	-	P	H
		14491	40.9	-13.1	54	43.4	41.86	11.72	56.08	-	-	A	H
		15630	45.39	-28.61	74	50.3	39.05	12.03	55.99	-	-	P	H
		17978	56.69	-17.31	74	52.31	47.91	13.19	56.72	-	-	P	H
		17978	47.57	-6.43	54	43.19	47.91	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT80													H
CH 42		10420	48.3	-19.9	68.2	54.42	40.16	10.18	56.46	395	112	P	V
5210MHz		10938	48.8	-25.2	74	53.4	40.82	10.44	55.86	-	-	P	V
		10938	38.57	-15.43	54	43.17	40.82	10.44	55.86	-	-	A	V
		14491	49.46	-24.54	74	51.96	41.86	11.72	56.08	-	-	P	V
		14491	40.69	-13.31	54	43.19	41.86	11.72	56.08	-	-	A	V
		15630	45.84	-28.16	74	50.75	39.05	12.03	55.99	-	-	P	V
		17989	55.35	-18.65	74	50.68	48.2	13.19	56.72	-	-	P	V
		17989	48.18	-5.82	54	43.51	48.2	13.19	56.72	-	-	A	V
													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. 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 52 5260MHz		5067.32	52.96	-21.04	74	42.03	32.1	6.26	27.43	100	103	P	H
		5050.32	42.13	-11.87	54	31.22	32.1	6.25	27.44	100	103	A	H
	*	5260	103.19	-	-	92.47	31.78	6.32	27.38	100	103	P	H
	*	5260	95.59	-	-	84.87	31.78	6.32	27.38	100	103	A	H
		5394	49.91	-24.09	74	39.01	31.86	6.39	27.35	100	103	P	H
		5460	40.87	-13.13	54	29.85	31.94	6.41	27.33	100	103	A	H
		5056.1	52.98	-21.02	74	42.07	32.1	6.25	27.44	100	172	P	V
		5048.28	42.17	-11.83	54	31.27	32.09	6.25	27.44	100	172	A	V
	*	5260	98.76	-	-	88.04	31.78	6.32	27.38	100	172	P	V
	*	5260	91.11	-	-	80.39	31.78	6.32	27.38	100	172	A	V
		5455.2	50.55	-23.45	74	39.55	31.92	6.41	27.33	100	172	P	V
		5459.04	40.69	-13.31	54	29.67	31.94	6.41	27.33	100	172	A	V
802.11a CH 60 5300MHz		5069.36	51.88	-22.12	74	40.95	32.1	6.26	27.43	103	105	P	H
		5051.34	42.17	-11.83	54	31.26	32.1	6.25	27.44	103	105	A	H
	*	5300	103.25	-	-	92.58	31.7	6.34	27.37	103	105	P	H
	*	5300	95.51	-	-	84.84	31.7	6.34	27.37	103	105	A	H
		5355.84	51.7	-22.3	74	41.05	31.64	6.37	27.36	103	105	P	H
		5459.04	40.87	-13.13	54	29.85	31.94	6.41	27.33	103	105	A	H
		5067.32	53.3	-20.7	74	42.37	32.1	6.26	27.43	110	68	P	V
		5056.78	42.13	-11.87	54	31.22	32.1	6.25	27.44	110	68	A	V
	*	5300	100.22	-	-	89.55	31.7	6.34	27.37	110	68	P	V
	*	5300	92.61	-	-	81.94	31.7	6.34	27.37	110	68	A	V
		5457.12	51.36	-22.64	74	40.35	31.93	6.41	27.33	110	68	P	V
		5458.08	40.83	-13.17	54	29.82	31.93	6.41	27.33	110	68	A	V

802.11a CH 64 5320MHz	*	5320	103.03	-	-	92.39	31.66	6.35	27.37	100	105	P	H
	*	5320	95.39	-	-	84.75	31.66	6.35	27.37	100	105	A	H
		5360.8	51.93	-22.07	74	41.26	31.66	6.37	27.36	100	105	P	H
		5350.24	40.99	-13.01	54	30.38	31.6	6.37	27.36	100	105	A	H
													H
													H
	*	5320	100.33	-	-	89.69	31.66	6.35	27.37	106	67	P	V
	*	5320	92.78	-	-	82.14	31.66	6.35	27.37	106	67	A	V
		5352.48	51.37	-22.63	74	40.75	31.61	6.37	27.36	106	67	P	V
		5460	40.94	-13.06	54	29.92	31.94	6.41	27.33	106	67	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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	58.3	-9.9	68.2	64.14	40.36	10.23	56.43	100	169	P	H
		10762	49	-25	74	54.13	40.62	10.35	56.1	-	-	P	H
		10762	37.44	-16.56	54	42.57	40.62	10.35	56.1	-	-	A	H
		14480	49.8	-24.2	74	52.37	41.82	11.71	56.1	-	-	P	H
		14480	39.92	-14.08	54	42.49	41.82	11.71	56.1	-	-	A	H
		15780	46.05	-27.95	74	51.05	38.62	12.05	55.67	-	-	P	H
		17978	55.88	-18.12	74	51.5	47.91	13.19	56.72	-	-	P	H
		17978	45.38	-8.62	54	41	47.91	13.19	56.72	-	-	A	H
													H
													H
													H
													H
		10520	53.11	-15.09	68.2	58.95	40.36	10.23	56.43	100	230	P	V
		10784	48.65	-25.35	74	53.69	40.67	10.36	56.07	-	-	P	V
		10784	37.49	-16.51	54	42.53	40.67	10.36	56.07	-	-	A	V
		14480	49.97	-24.03	74	52.54	41.82	11.71	56.1	-	-	P	V
		14480	39.81	-14.19	54	42.38	41.82	11.71	56.1	-	-	A	V
		15780	45.18	-28.82	74	50.18	38.62	12.05	55.67	-	-	P	V
		17989	56.09	-17.91	74	51.42	48.2	13.19	56.72	-	-	P	V
		17989	45.9	-8.1	54	41.23	48.2	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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 60 5300MHz		10600	59.45	-14.55	74	65.3	40.2	10.27	56.32	100	219	P	H
		10600	46.08	-7.92	54	51.93	40.2	10.27	56.32	100	219	A	H
		10872	49.28	-24.72	74	53.98	40.84	10.41	55.95	-	-	P	H
		10872	37.77	-16.23	54	42.47	40.84	10.41	55.95	-	-	A	H
		14491	50.12	-23.88	74	52.62	41.86	11.72	56.08	-	-	P	H
		14491	39.89	-14.11	54	42.39	41.86	11.72	56.08	-	-	A	H
		15900	45.84	-28.16	74	50.48	38.7	12.07	55.41	-	-	P	H
		17989	56.03	-17.97	74	51.36	48.2	13.19	56.72	-	-	P	H
		17989	45.73	-8.27	54	41.06	48.2	13.19	56.72	-	-	A	H
													H
													H
													H
		10600	57	-17	74	62.85	40.2	10.27	56.32	100	223	P	V
		10600	43.68	-10.32	54	49.53	40.2	10.27	56.32	100	223	A	V
		10927	49.52	-24.48	74	54.11	40.85	10.43	55.87	-	-	P	V
		10927	37.74	-16.26	54	42.33	40.85	10.43	55.87	-	-	A	V
		14491	50.12	-23.88	74	52.62	41.86	11.72	56.08	-	-	P	V
		14491	39.88	-14.12	54	42.38	41.86	11.72	56.08	-	-	A	V
		15900	46.02	-27.98	74	50.66	38.7	12.07	55.41	-	-	P	V
		17978	56.54	-17.46	74	52.16	47.91	13.19	56.72	-	-	P	V
		17978	45.46	-8.54	54	41.08	47.91	13.19	56.72	-	-	A	V
													V
													V
													V

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 64 5320MHz		10640	57.17	-16.83	74	62.83	40.32	10.29	56.27	100	217	P	H
		10640	47.61	-6.39	54	53.27	40.32	10.29	56.27	100	217	A	H
		10905	49.27	-24.73	74	53.86	40.89	10.42	55.9	-	-	P	H
		10905	37.74	-16.26	54	42.33	40.89	10.42	55.9	-	-	A	H
		14480	49.6	-24.4	74	52.17	41.82	11.71	56.1	-	-	P	H
		14480	39.83	-14.17	54	42.4	41.82	11.71	56.1	-	-	A	H
		15960	45.44	-28.56	74	50.14	38.52	12.07	55.29	-	-	P	H
		17989	56.63	-17.37	74	51.96	48.2	13.19	56.72	-	-	P	H
		17989	45.86	-8.14	54	41.19	48.2	13.19	56.72	-	-	A	H
													H
													H
													H
		10640	55.44	-18.56	74	61.1	40.32	10.29	56.27	100	224	P	V
		10640	45.12	-8.88	54	50.78	40.32	10.29	56.27	100	224	A	V
		11059	49.05	-24.95	74	53.92	40.41	10.49	55.77	-	-	P	V
		11059	37.45	-16.55	54	42.32	40.41	10.49	55.77	-	-	A	V
		14491	49.49	-24.51	74	51.99	41.86	11.72	56.08	-	-	P	V
		14491	39.8	-14.2	54	42.3	41.86	11.72	56.08	-	-	A	V
		15960	44.97	-29.03	74	49.67	38.52	12.07	55.29	-	-	P	V
		17978	55.62	-18.38	74	51.24	47.91	13.19	56.72	-	-	P	V
		17978	45.71	-8.29	54	41.33	47.91	13.19	56.72	-	-	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 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 52 5260MHz		5061.54	53.28	-20.72	74	42.35	32.1	6.26	27.43	100	104	P	H
		5050.66	42.16	-11.84	54	31.25	32.1	6.25	27.44	100	104	A	H
	*	5260	103.82	-	-	93.1	31.78	6.32	27.38	100	104	P	H
	*	5260	95.75	-	-	85.03	31.78	6.32	27.38	100	104	A	H
		5366.4	50.62	-23.38	74	39.9	31.7	6.37	27.35	100	104	P	H
		5458.32	40.9	-13.1	54	29.89	31.93	6.41	27.33	100	104	A	H
		5094.52	52.6	-21.4	74	41.67	32.1	6.26	27.43	100	68	P	V
		5052.02	42.15	-11.85	54	31.24	32.1	6.25	27.44	100	68	A	V
	*	5260	100.75	-	-	90.03	31.78	6.32	27.38	100	68	P	V
	*	5260	92.89	-	-	82.17	31.78	6.32	27.38	100	68	A	V
		5415.12	50.32	-23.68	74	39.37	31.9	6.39	27.34	100	68	P	V
		5459.76	40.81	-13.19	54	29.79	31.94	6.41	27.33	100	68	A	V
802.11ac VHT20 CH 60 5300MHz		5039.1	51.66	-22.34	74	40.82	32.03	6.25	27.44	105	105	P	H
		5060.18	42.14	-11.86	54	31.21	32.1	6.26	27.43	105	105	A	H
	*	5300	103.06	-	-	92.39	31.7	6.34	27.37	105	105	P	H
	*	5300	94.86	-	-	84.19	31.7	6.34	27.37	105	105	A	H
		5452.56	50.98	-23.02	74	39.99	31.91	6.41	27.33	105	105	P	H
		5460	40.83	-13.17	54	29.81	31.94	6.41	27.33	105	105	A	H
		5066.64	52.45	-21.55	74	41.52	32.1	6.26	27.43	111	69	P	V
		5050.32	42.15	-11.85	54	31.24	32.1	6.25	27.44	111	69	A	V
	*	5300	99.52	-	-	88.85	31.7	6.34	27.37	111	69	P	V
	*	5300	91.67	-	-	81	31.7	6.34	27.37	111	69	A	V
		5410.08	51.84	-22.16	74	40.89	31.9	6.39	27.34	111	69	P	V
		5457.6	40.81	-13.19	54	29.8	31.93	6.41	27.33	111	69	A	V

	*	5320	102.94	-	-	92.3	31.66	6.35	27.37	100	105	P	H
	*	5320	95.12	-	-	84.48	31.66	6.35	27.37	100	105	A	H
		5369.12	50.44	-23.56	74	39.71	31.71	6.37	27.35	100	105	P	H
		5350.08	41.59	-12.41	54	30.98	31.6	6.37	27.36	100	105	A	H
802.11ac													H
VHT20													H
CH 64	*	5320	99.42	-	-	88.78	31.66	6.35	27.37	106	68	P	V
5320MHz	*	5320	91.53	-	-	80.89	31.66	6.35	27.37	106	68	A	V
		5363.2	50.8	-23.2	74	40.11	31.68	6.37	27.36	106	68	P	V
		5459.52	40.87	-13.13	54	29.85	31.94	6.41	27.33	106	68	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 802.11ac VHT20 (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)
		10520	61.75	-6.45	68.2	67.59	40.36	10.23	56.43	102	162	P	H
		10784	49.26	-24.74	74	54.3	40.67	10.36	56.07	-	-	P	H
		10784	38.46	-15.54	54	43.5	40.67	10.36	56.07	-	-	A	H
		14491	49.53	-24.47	74	52.03	41.86	11.72	56.08	-	-	P	H
		14491	41.28	-12.72	54	43.78	41.86	11.72	56.08	-	-	A	H
		15780	45.66	-28.34	74	50.66	38.62	12.05	55.67	-	-	P	H
		17989	56	-18	74	51.33	48.2	13.19	56.72	-	-	P	H
		17989	47.78	-6.22	54	43.11	48.2	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 52		10520	54.19	-14.01	68.2	60.03	40.36	10.23	56.43	392	115	P	V
5260MHz		10949	48.82	-25.18	74	53.41	40.8	10.45	55.84	-	-	P	V
		10949	38.87	-15.13	54	43.46	40.8	10.45	55.84	-	-	A	V
		14491	49.85	-24.15	74	52.35	41.86	11.72	56.08	-	-	P	V
		14491	40.77	-13.23	54	43.27	41.86	11.72	56.08	-	-	A	V
		15780	45.53	-28.47	74	50.53	38.62	12.05	55.67	-	-	P	V
		18000	57	-17	74	52.02	48.5	13.2	56.72	-	-	P	V
		18000	48.17	-5.83	54	43.19	48.5	13.2	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10600	58.95	-15.05	74	64.8	40.2	10.27	56.32	100	163	P	H
		10600	46.42	-7.58	54	52.27	40.2	10.27	56.32	100	163	A	H
		11026	49.01	-24.99	74	53.73	40.57	10.48	55.77	-	-	P	H
		11026	38.4	-15.6	54	43.12	40.57	10.48	55.77	-	-	A	H
		14491	49.45	-24.55	74	51.95	41.86	11.72	56.08	-	-	P	H
		14491	40.71	-13.29	54	43.21	41.86	11.72	56.08	-	-	A	H
		15900	46.08	-27.92	74	50.72	38.7	12.07	55.41	-	-	P	H
		17989	55.79	-18.21	74	51.12	48.2	13.19	56.72	-	-	P	H
		17989	48.01	-5.99	54	43.34	48.2	13.19	56.72	-	-	A	H
													H
802.11ac													H
VHT20													H
CH 60		10600	55.08	-18.92	74	60.93	40.2	10.27	56.32	383	111	P	V
5300MHz		10600	43.73	-10.27	54	49.58	40.2	10.27	56.32	383	111	A	V
		10883	48.56	-25.44	74	53.21	40.87	10.41	55.93	-	-	P	V
		10883	38.54	-15.46	54	43.19	40.87	10.41	55.93	-	-	A	V
		14491	49.62	-24.38	74	52.12	41.86	11.72	56.08	-	-	P	V
		14491	40.6	-13.4	54	43.1	41.86	11.72	56.08	-	-	A	V
		15900	45.18	-28.82	74	49.82	38.7	12.07	55.41	-	-	P	V
		17989	55.77	-18.23	74	51.1	48.2	13.19	56.72	-	-	P	V
		17989	47.89	-6.11	54	43.22	48.2	13.19	56.72	-	-	A	V
													V
													V
													V

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)
		10640	58.6	-15.4	74	64.26	40.32	10.29	56.27	100	163	P	H
		10640	46.26	-7.74	54	51.92	40.32	10.29	56.27	100	163	A	H
		10828	49.44	-24.56	74	54.3	40.76	10.39	56.01	-	-	P	H
		10828	38.48	-15.52	54	43.34	40.76	10.39	56.01	-	-	A	H
		14480	49.45	-24.55	74	52.02	41.82	11.71	56.1	-	-	P	H
		14480	40.62	-13.38	54	43.19	41.82	11.71	56.1	-	-	A	H
		15960	44.14	-29.86	74	48.84	38.52	12.07	55.29	-	-	P	H
		17978	56.06	-17.94	74	51.68	47.91	13.19	56.72	-	-	P	H
		17978	47.47	-6.53	54	43.09	47.91	13.19	56.72	-	-	A	H
													H
802.11ac													H
VHT20													H
CH 64		10640	55.79	-18.21	74	61.45	40.32	10.29	56.27	391	114	P	V
5320MHz		10640	43.67	-10.33	54	49.33	40.32	10.29	56.27	391	114	A	V
		10894	50.33	-23.67	74	54.94	40.89	10.42	55.92	-	-	P	V
		10894	38.79	-15.21	54	43.4	40.89	10.42	55.92	-	-	A	V
		14491	49.25	-24.75	74	51.75	41.86	11.72	56.08	-	-	P	V
		14491	40.8	-13.2	54	43.3	41.86	11.72	56.08	-	-	A	V
		15960	44.69	-29.31	74	49.39	38.52	12.07	55.29	-	-	P	V
		17989	55.98	-18.02	74	51.31	48.2	13.19	56.72	-	-	P	V
		17989	47.79	-6.21	54	43.12	48.2	13.19	56.72	-	-	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 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5034.68	52.21	-21.79	74	41.39	32.01	6.25	27.44	100	102	P	H
		5053.72	43.86	-10.14	54	32.95	32.1	6.25	27.44	100	102	A	H
	*	5270	99.98	-	-	89.28	31.76	6.32	27.38	100	102	P	H
	*	5270	92.41	-	-	81.71	31.76	6.32	27.38	100	102	A	H
		5428.56	50.81	-23.19	74	39.85	31.9	6.4	27.34	100	102	P	H
		5457.84	42.31	-11.69	54	31.3	31.93	6.41	27.33	100	102	A	H
		5095.88	52.91	-21.09	74	41.98	32.1	6.26	27.43	100	70	P	V
		5057.12	43.88	-10.12	54	32.97	32.1	6.25	27.44	100	70	A	V
	*	5270	97.02	-	-	86.32	31.76	6.32	27.38	100	70	P	V
	*	5270	89.44	-	-	78.74	31.76	6.32	27.38	100	70	A	V
		5369.76	50.02	-23.98	74	39.28	31.72	6.37	27.35	100	70	P	V
		5459.52	42.28	-11.72	54	31.26	31.94	6.41	27.33	100	70	A	V
802.11ac VHT40 CH 62 5310MHz		5030.26	52.36	-21.64	74	41.57	31.98	6.25	27.44	104	105	P	H
		5078.88	43.99	-10.01	54	33.06	32.1	6.26	27.43	104	105	A	H
	*	5310	99.68	-	-	89.03	31.68	6.34	27.37	104	105	P	H
	*	5310	91.93	-	-	81.28	31.68	6.34	27.37	104	105	A	H
		5352	54.68	-19.32	74	44.06	31.61	6.37	27.36	104	105	P	H
		5350.08	48.93	-5.07	54	38.32	31.6	6.37	27.36	104	105	A	H
		5083.98	51.74	-22.26	74	40.81	32.1	6.26	27.43	106	70	P	V
		5055.08	44.02	-9.98	54	33.11	32.1	6.25	27.44	106	70	A	V
	*	5310	97.21	-	-	86.56	31.68	6.34	27.37	106	70	P	V
	*	5310	89.1	-	-	78.45	31.68	6.34	27.37	106	70	A	V
		5352	52.56	-21.44	74	41.94	31.61	6.37	27.36	106	70	P	V
		5350.56	46.5	-7.5	54	35.89	31.6	6.37	27.36	106	70	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 VHT40 (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)
		10540	52.51	-15.69	68.2	58.35	40.32	10.24	56.4	-	-	P	H
		10773	49.5	-24.5	74	54.57	40.65	10.36	56.08	-	-	P	H
		10773	37.43	-16.57	54	42.5	40.65	10.36	56.08	-	-	A	H
		14480	48.85	-25.15	74	51.42	41.82	11.71	56.1	-	-	P	H
		14480	37.79	-16.21	54	40.36	41.82	11.71	56.1	-	-	A	H
		15810	43.97	-30.03	74	48.91	38.61	12.06	55.61	-	-	P	H
		18000	55.71	-18.29	74	50.73	48.5	13.2	56.72	-	-	P	H
		18000	45.66	-8.34	54	40.68	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 54		10540	49.12	-19.08	68.2	54.96	40.32	10.24	56.4	-	-	P	V
5270MHz		10916	49.15	-24.85	74	53.74	40.87	10.43	55.89	-	-	P	V
		10916	37.06	-16.94	54	41.65	40.87	10.43	55.89	-	-	A	V
		14480	50.12	-23.88	74	52.69	41.82	11.71	56.1	-	-	P	V
		14480	38.96	-15.04	54	41.53	41.82	11.71	56.1	-	-	A	V
		15810	44.39	-29.61	74	49.33	38.61	12.06	55.61	-	-	P	V
		17989	55.47	-18.53	74	50.8	48.2	13.19	56.72	-	-	P	V
		17989	45.5	-8.5	54	40.83	48.2	13.19	56.72	-	-	A	V
													V
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													V
													V

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)
		10620	54.72	-19.28	74	60.47	40.26	10.28	56.29	101	163	P	H
		10620	45.28	-8.72	54	51.03	40.26	10.28	56.29	101	163	A	H
		10751	49.12	-24.88	74	54.28	40.6	10.35	56.11	-	-	P	H
		10751	37.02	-16.98	54	42.18	40.6	10.35	56.11	-	-	A	H
		14491	49.6	-24.4	74	52.1	41.86	11.72	56.08	-	-	P	H
		14491	38.53	-15.47	54	41.03	41.86	11.72	56.08	-	-	A	H
		15930	44.96	-29.04	74	49.63	38.61	12.07	55.35	-	-	P	H
		17989	55.37	-18.63	74	50.7	48.2	13.19	56.72	-	-	P	H
		17989	45.21	-8.79	54	40.54	48.2	13.19	56.72	-	-	A	H
													H
802.11ac													H
VHT40													H
CH 62		10620	50.99	-23.01	74	56.74	40.26	10.28	56.29	382	112	P	V
5310MHz		10620	42.36	-11.64	54	48.11	40.26	10.28	56.29	382	112	A	V
		10927	49.33	-24.67	74	53.92	40.85	10.43	55.87	-	-	P	V
		10927	37.26	-16.74	54	41.85	40.85	10.43	55.87	-	-	A	V
		14480	49.27	-24.73	74	51.84	41.82	11.71	56.1	-	-	P	V
		14480	38.22	-15.78	54	40.79	41.82	11.71	56.1	-	-	A	V
		15930	44.36	-29.64	74	49.03	38.61	12.07	55.35	-	-	P	V
		18000	55.29	-18.71	74	50.31	48.5	13.2	56.72	-	-	P	V
		18000	45.24	-8.76	54	40.26	48.5	13.2	56.72	-	-	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5123.08	52.73	-21.27	74	40.82	32.15	6.27	26.51	150	99	P	H
		5072.76	44.94	-9.06	54	33.08	32.1	6.26	26.5	150	99	A	H
	*	5290	97.92	-	-	86.39	31.72	6.34	26.53	150	99	P	H
	*	5290	90.6	-	-	79.07	31.72	6.34	26.53	150	99	A	H
		5350.32	60.17	-13.83	74	48.74	31.6	6.37	26.54	150	99	P	H
		5350.56	53.33	-0.67	54	41.9	31.6	6.37	26.54	150	99	A	H
		5068.34	53.81	-20.19	74	41.95	32.1	6.26	26.5	109	72	P	V
		5042.84	44.96	-9.04	54	33.15	32.06	6.25	26.5	109	72	A	V
	*	5290	94.02	-	-	82.49	31.72	6.34	26.53	109	72	P	V
	*	5290	86.47	-	-	74.94	31.72	6.34	26.53	109	72	A	V
		5359.68	57.82	-16.18	74	46.33	31.66	6.37	26.54	109	72	P	V
		5350.08	49.12	-4.88	54	37.69	31.6	6.37	26.54	109	72	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	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		10580	50.58	-17.62	68.2	56.43	40.24	10.26	56.35	-	-	P	H
		10817	49.08	-24.92	74	53.99	40.73	10.38	56.02	-	-	P	H
		10817	36.94	-17.06	54	41.85	40.73	10.38	56.02	-	-	A	H
		14480	49.48	-24.52	74	52.05	41.82	11.71	56.1	-	-	P	H
		14480	39.39	-14.61	54	41.96	41.82	11.71	56.1	-	-	A	H
		15870	44.8	-29.2	74	49.54	38.67	12.07	55.48	-	-	P	H
		17978	55.28	-18.72	74	50.9	47.91	13.19	56.72	-	-	P	H
		17978	45.12	-8.88	54	40.74	47.91	13.19	56.72	-	-	A	H
													H
													H
													H
													H
		10580	49.01	-19.19	68.2	54.86	40.24	10.26	56.35	-	-	P	V
		10971	48.67	-25.33	74	53.26	40.76	10.46	55.81	-	-	P	V
		10971	36.59	-17.41	54	41.18	40.76	10.46	55.81	-	-	A	V
		14480	48.91	-25.09	74	51.48	41.82	11.71	56.1	-	-	P	V
		14480	38.78	-15.22	54	41.35	41.82	11.71	56.1	-	-	A	V
		15870	44.64	-29.36	74	49.38	38.67	12.07	55.48	-	-	P	V
		18000	55.82	-18.18	74	50.84	48.5	13.2	56.72	-	-	P	V
		18000	45.77	-8.23	54	40.79	48.5	13.2	56.72	-	-	A	V
													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 802.11a (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		5458.32	57.03	-16.97	74	46.02	31.93	6.41	27.33	127	104	P	H
		5466.8	59.02	-9.18	68.2	47.97	31.97	6.41	27.33	127	104	P	H
		5460	41.9	-12.1	54	30.88	31.94	6.41	27.33	127	104	A	H
	*	5500	100.9	-	-	89.7	32.1	6.42	27.32	127	104	P	H
	*	5500	93.19	-	-	81.99	32.1	6.42	27.32	127	104	A	H
													H
		5440.08	51.6	-22.4	74	40.64	31.9	6.4	27.34	271	256	P	V
		5461.68	52.41	-15.79	68.2	41.38	31.95	6.41	27.33	271	256	P	V
		5458.96	40.95	-13.05	54	29.93	31.94	6.41	27.33	271	256	A	V
	*	5500	97.73	-	-	86.53	32.1	6.42	27.32	395	205	P	V
	*	5500	89.93	-	-	78.73	32.1	6.42	27.32	395	205	A	V
													V
802.11a CH 116 5580MHz		5444.8	51.48	-22.52	74	40.51	31.9	6.4	27.33	108	102	P	H
		5467.36	51.78	-16.42	68.2	40.73	31.97	6.41	27.33	108	102	P	H
		5458.48	41.03	-12.97	54	30.02	31.93	6.41	27.33	108	102	A	H
	*	5580	101.04	-	-	89.98	32	6.44	27.38	108	102	P	H
	*	5580	92.93	-	-	81.87	32	6.44	27.38	108	102	A	H
		5745.47	51.75	-16.45	68.2	40.46	32.38	6.41	27.5	108	102	P	H
		5456.56	50.7	-23.3	74	39.69	31.93	6.41	27.33	100	67	P	V
		5462.8	51.09	-17.11	68.2	40.06	31.95	6.41	27.33	100	67	P	V
		5459.92	40.91	-13.09	54	29.89	31.94	6.41	27.33	100	67	A	V
	*	5580	98.9	-	-	87.84	32	6.44	27.38	100	67	P	V
	*	5580	91.19	-	-	80.13	32	6.44	27.38	100	67	A	V
		5761.535	51.5	-16.7	68.2	40.21	32.4	6.4	27.51	100	67	P	V

802.11a CH 140 5700MHz	*	5700	102.16	-	-	91	32.2	6.42	27.46	118	89	P	H
	*	5700	94.49	-	-	83.33	32.2	6.42	27.46	118	89	A	H
		5725.24	57.56	-10.64	68.2	46.33	32.3	6.41	27.48	118	89	P	H
													H
													H
													H
	*	5700	98.21	-	-	87.05	32.2	6.42	27.46	100	59	P	V
	*	5700	90.58	-	-	79.42	32.2	6.42	27.46	100	59	A	V
		5743.72	54.54	-13.66	68.2	43.26	32.37	6.41	27.5	100	59	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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		10927	48.97	-25.03	74	53.56	40.85	10.43	55.87	-	-	P	H
		10927	37.74	-16.26	54	42.33	40.85	10.43	55.87	-	-	A	H
		11000	49.12	-24.88	74	53.72	40.7	10.47	55.77	100	217	P	H
		11000	40.42	-13.58	54	45.02	40.7	10.47	55.77	100	217	A	H
		14480	50.09	-23.91	74	52.66	41.82	11.71	56.1	-	-	P	H
		14480	39.88	-14.12	54	42.45	41.82	11.71	56.1	-	-	A	H
		16500	47.46	-20.74	68.2	50.61	39.9	12.26	55.31	-	-	P	H
		17989	55.73	-18.27	74	51.06	48.2	13.19	56.72	-	-	P	H
		17989	45.95	-8.05	54	41.28	48.2	13.19	56.72	-	-	A	H
													H
													H
													H
		11000	50.67	-23.33	74	55.27	40.7	10.47	55.77	101	154	P	V
		11000	41.94	-12.06	54	46.54	40.7	10.47	55.77	101	154	A	V
		11422	48.96	-25.04	74	54.12	39.97	10.65	55.78	-	-	P	V
		11422	37.37	-16.63	54	42.53	39.97	10.65	55.78	-	-	A	V
		14480	49.43	-24.57	74	52	41.82	11.71	56.1	-	-	P	V
		14480	39.66	-14.34	54	42.23	41.82	11.71	56.1	-	-	A	V
		16500	46.33	-21.87	68.2	49.48	39.9	12.26	55.31	-	-	P	V
		18000	44.98	-29.02	74	40	48.5	13.2	56.72	-	-	P	V
		18000	45.89	-8.11	54	40.91	48.5	13.2	56.72	-	-	A	V
													V
													V
													V

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 116 5580MHz		11059	48.98	-25.02	74	53.85	40.41	10.49	55.77	-	-	P	H
		11059	47.61	-6.39	54	52.48	40.41	10.49	55.77	-	-	A	H
		11160	47.94	-26.06	74	53.21	39.96	10.54	55.77	-	-	P	H
		14480	50.74	-23.26	74	53.31	41.82	11.71	56.1	-	-	P	H
		14480	39.95	-14.05	54	42.52	41.82	11.71	56.1	-	-	A	H
		16740	46.66	-21.54	68.2	49.58	40.26	12.35	55.53	-	-	P	H
		17989	56.52	-17.48	74	51.85	48.2	13.19	56.72	-	-	P	H
		17989	46.05	-7.95	54	41.38	48.2	13.19	56.72	-	-	A	H
													H
													H
													H
													H
		10949	49.35	-24.65	74	53.94	40.8	10.45	55.84	-	-	P	V
		10949	37.89	-16.11	54	42.48	40.8	10.45	55.84	-	-	A	V
		11160	47.64	-26.36	74	52.91	39.96	10.54	55.77	-	-	P	V
		14480	49.15	-24.85	74	51.72	41.82	11.71	56.1	-	-	P	V
		14480	39.82	-14.18	54	42.39	41.82	11.71	56.1	-	-	A	V
		16740	47.13	-21.07	68.2	50.05	40.26	12.35	55.53	-	-	P	V
		18000	56.43	-17.57	74	51.45	48.5	13.2	56.72	-	-	P	V
		18000	46.18	-7.82	54	41.2	48.5	13.2	56.72	-	-	A	V
													V
													V
													V
													V

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 140 5700MHz		10938	49.37	-24.63	74	53.97	40.82	10.44	55.86	-	-	P	H
		10938	37.78	-16.22	54	42.38	40.82	10.44	55.86	-	-	A	H
		11400	48.05	-25.95	74	53.29	39.9	10.64	55.78	-	-	P	H
		14480	49.6	-24.4	74	52.17	41.82	11.71	56.1	-	-	P	H
		14480	39.81	-14.19	54	42.38	41.82	11.71	56.1	-	-	A	H
		17100	48.55	-19.65	68.2	51.58	40.4	12.52	55.95	-	-	P	H
		18000	56.2	-17.8	74	51.22	48.5	13.2	56.72	-	-	P	H
		18000	46.17	-7.83	54	41.19	48.5	13.2	56.72	-	-	A	H
													H
													H
													H
													H
		11400	47.36	-26.64	74	52.6	39.9	10.64	55.78	-	-	P	V
		11499	49.67	-24.33	74	54.57	40.2	10.68	55.78	-	-	P	V
		11499	37.43	-16.57	54	42.33	40.2	10.68	55.78	-	-	A	V
		14480	49.4	-24.6	74	51.97	41.82	11.71	56.1	-	-	P	V
		14480	39.84	-14.16	54	42.41	41.82	11.71	56.1	-	-	A	V
		17100	47.84	-20.36	68.2	50.87	40.4	12.52	55.95	-	-	P	V
		17989	57.39	-16.61	74	52.72	48.2	13.19	56.72	-	-	P	V
		17989	45.78	-8.22	54	41.11	48.2	13.19	56.72	-	-	A	V
													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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 100 5500MHz		5430.64	51.03	-22.97	74	40.07	31.9	6.4	27.34	117	102	P	H
		5466.8	50.64	-17.56	68.2	39.59	31.97	6.41	27.33	117	102	P	H
		5456.72	41.83	-12.17	54	30.82	31.93	6.41	27.33	117	102	A	H
	*	5500	100.95	-	-	89.75	32.1	6.42	27.32	117	102	P	H
	*	5500	93.04	-	-	81.84	32.1	6.42	27.32	117	102	A	H
													H
		5444.08	51.99	-22.01	74	41.02	31.9	6.4	27.33	100	67	P	V
		5465.52	50.86	-17.34	68.2	39.82	31.96	6.41	27.33	100	67	P	V
		5458.48	41.29	-12.71	54	30.28	31.93	6.41	27.33	100	67	A	V
	*	5500	97.2	-	-	86	32.1	6.42	27.32	100	67	P	V
	*	5500	89.6	-	-	78.4	32.1	6.42	27.32	100	67	A	V
													V
802.11ac VHT20 CH 116 5580MHz		5419.36	50.23	-23.77	74	39.27	31.9	6.4	27.34	107	94	P	H
		5463.52	49.95	-18.25	68.2	38.92	31.95	6.41	27.33	107	94	P	H
		5459.44	40.99	-13.01	54	29.97	31.94	6.41	27.33	107	94	A	H
	*	5580	100.46	-	-	89.4	32	6.44	27.38	107	94	P	H
	*	5580	92.58	-	-	81.52	32	6.44	27.38	107	94	A	H
		5760.275	51.67	-16.53	68.2	40.38	32.4	6.4	27.51	107	94	P	H
		5449.84	50.17	-23.83	74	39.2	31.9	6.4	27.33	100	67	P	V
		5461.84	49.68	-18.52	68.2	38.65	31.95	6.41	27.33	100	67	P	V
		5458.72	40.89	-13.11	54	29.88	31.93	6.41	27.33	100	67	A	V
	*	5580	97.06	-	-	86	32	6.44	27.38	100	67	P	V
	*	5580	89.15	-	-	78.09	32	6.44	27.38	100	67	A	V
		5743.895	51.23	-16.97	68.2	39.94	32.38	6.41	27.5	100	67	P	V

802.11ac VHT20 CH 140 5700MHz	*	5700	101.3	-	-	90.14	32.2	6.42	27.46	115	96	P	H
	*	5700	93.3	-	-	82.14	32.2	6.42	27.46	115	96	A	H
		5737.4	51.84	-16.36	68.2	40.57	32.35	6.41	27.49	115	96	P	H
													H
													H
													H
	*	5700	96.99	-	-	85.83	32.2	6.42	27.46	114	59	P	V
	*	5700	89.03	-	-	77.87	32.2	6.42	27.46	114	59	A	V
		5740.04	52.41	-15.79	68.2	41.13	32.36	6.41	27.49	114	59	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 802.11ac VHT20 (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)
		10938	49.26	-24.74	74	53.86	40.82	10.44	55.86	-	-	P	H
		10938	37.18	-16.82	54	41.78	40.82	10.44	55.86	-	-	A	H
		11000	47.78	-26.22	74	52.38	40.7	10.47	55.77	-	-	P	H
		14491	49.14	-24.86	74	51.64	41.86	11.72	56.08	-	-	P	H
		14491	38.06	-15.94	54	40.56	41.86	11.72	56.08	-	-	A	H
		16500	46.47	-21.73	68.2	49.62	39.9	12.26	55.31	-	-	P	H
		17989	55.83	-18.17	74	51.16	48.2	13.19	56.72	-	-	P	H
		17989	45.75	-8.25	54	41.08	48.2	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 100		10718	49.25	-24.75	74	54.54	40.54	10.33	56.16	-	-	P	V
5500MHz		10718	37.11	-16.89	54	42.4	40.54	10.33	56.16	-	-	A	V
		11000	47.83	-26.17	74	52.43	40.7	10.47	55.77	-	-	P	V
		14491	49.24	-24.76	74	51.74	41.86	11.72	56.08	-	-	P	V
		14491	39.13	-14.87	54	41.63	41.86	11.72	56.08	-	-	A	V
		16500	46.38	-21.82	68.2	49.53	39.9	12.26	55.31	-	-	P	V
		18000	55.69	-18.31	74	50.71	48.5	13.2	56.72	-	-	P	V
		18000	45.21	-8.79	54	40.23	48.5	13.2	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10861	49.07	-24.93	74	53.81	40.82	10.4	55.96	-	-	P	H
		10861	36.99	-17.01	54	41.73	40.82	10.4	55.96	-	-	A	H
		11160	47.67	-26.33	74	52.94	39.96	10.54	55.77	-	-	P	H
		14491	49.68	-24.32	74	52.18	41.86	11.72	56.08	-	-	P	H
		14491	38.59	-15.41	54	41.09	41.86	11.72	56.08	-	-	A	H
		16740	46.4	-21.8	68.2	49.32	40.26	12.35	55.53	-	-	P	H
		18000	56.08	-17.92	74	51.1	48.5	13.2	56.72	-	-	P	H
		18000	45.01	-8.99	54	40.03	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 116		10894	48.61	-25.39	74	53.22	40.89	10.42	55.92	-	-	P	V
5580MHz		10894	36.54	-17.46	54	41.15	40.89	10.42	55.92	-	-	A	V
		11160	47.16	-26.84	74	52.43	39.96	10.54	55.77	-	-	P	V
		14491	49.39	-24.61	74	51.89	41.86	11.72	56.08	-	-	P	V
		14491	39.27	-14.73	54	41.77	41.86	11.72	56.08	-	-	A	V
		16740	46.21	-21.99	68.2	49.13	40.26	12.35	55.53	-	-	P	V
		17945	55.91	-18.09	74	52.46	47.01	13.16	56.72	-	-	P	V
		17945	44.79	-9.21	54	41.34	47.01	13.16	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10938	48.72	-25.28	74	53.32	40.82	10.44	55.86	-	-	P	H
		10938	36.69	-17.31	54	41.29	40.82	10.44	55.86	-	-	A	H
		11400	46.33	-27.67	74	51.57	39.9	10.64	55.78	-	-	P	H
		14491	50.26	-23.74	74	52.76	41.86	11.72	56.08	-	-	P	H
		14491	39.16	-14.84	54	41.66	41.86	11.72	56.08	-	-	A	H
		17100	47.7	-20.5	68.2	50.73	40.4	12.52	55.95	-	-	P	H
		18000	55.18	-18.82	74	50.2	48.5	13.2	56.72	-	-	P	H
		18000	45.07	-8.93	54	40.09	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT20													H
CH 140		10949	49.5	-24.5	74	54.09	40.8	10.45	55.84	-	-	P	V
5700MHz		10949	37.42	-16.58	54	42.01	40.8	10.45	55.84	-	-	A	V
		11400	46.39	-27.61	74	51.63	39.9	10.64	55.78	-	-	P	V
		14491	48.99	-25.01	74	51.49	41.86	11.72	56.08	-	-	P	V
		14491	38.04	-15.96	54	40.54	41.86	11.72	56.08	-	-	A	V
		17100	49.05	-19.15	68.2	52.08	40.4	12.52	55.95	-	-	P	V
		17989	55.31	-18.69	74	50.64	48.2	13.19	56.72	-	-	P	V
		17989	45.23	-8.77	54	40.56	48.2	13.19	56.72	-	-	A	V
													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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		5439.76	50.78	-23.22	74	39.82	31.9	6.4	27.34	105	103	P	H
		5465.44	51.85	-16.35	68.2	40.81	31.96	6.41	27.33	105	103	P	H
		5459.2	43.13	-10.87	54	32.11	31.94	6.41	27.33	105	103	A	H
	*	5510	98.86	-	-	87.69	32.08	6.42	27.33	105	103	P	H
	*	5510	89.83	-	-	78.66	32.08	6.42	27.33	105	103	A	H
		5738.855	50.51	-17.69	68.2	39.23	32.36	6.41	27.49	105	103	P	H
		5441.44	50.39	-23.61	74	39.43	31.9	6.4	27.34	100	75	P	V
		5467.12	50.84	-17.36	68.2	39.79	31.97	6.41	27.33	100	75	P	V
		5451.04	42.71	-11.29	54	31.73	31.9	6.41	27.33	100	75	A	V
	*	5510	96.18	-	-	85.01	32.08	6.42	27.33	100	75	P	V
	*	5510	87.62	-	-	76.45	32.08	6.42	27.33	100	75	A	V
		5757.755	50.61	-17.59	68.2	39.32	32.4	6.4	27.51	100	75	P	V
802.11ac VHT40 CH 110 5550MHz		5459.68	50.07	-23.93	74	39.05	31.94	6.41	27.33	111	103	P	H
		5467.84	50.24	-17.96	68.2	39.19	31.97	6.41	27.33	111	103	P	H
		5458.72	42.76	-11.24	54	31.75	31.93	6.41	27.33	111	103	A	H
	*	5550	98.62	-	-	87.55	32	6.43	27.36	111	103	P	H
	*	5550	90.37	-	-	79.3	32	6.43	27.36	111	103	A	H
		5734.445	52.95	-15.25	68.2	41.69	32.34	6.41	27.49	111	103	P	H
		5429.44	51.15	-22.85	74	40.19	31.9	6.4	27.34	100	75	P	V
		5463.28	51.58	-16.62	68.2	40.55	31.95	6.41	27.33	100	75	P	V
		5454.4	42.43	-11.57	54	31.43	31.92	6.41	27.33	100	75	A	V
	*	5550	96.88	-	-	85.81	32	6.43	27.36	100	75	P	V
	*	5550	88.28	-	-	77.21	32	6.43	27.36	100	75	A	V
		5750.825	52.15	-16.05	68.2	40.85	32.4	6.4	27.5	100	75	P	V

802.11ac VHT40 CH 134 5670MHz		5382.9	49.84	-24.16	74	39.01	31.8	6.38	27.35	100	91	P	H
		5465.5	49.89	-18.31	68.2	38.85	31.96	6.41	27.33	100	91	P	H
		5442.05	42.23	-11.77	54	31.27	31.9	6.4	27.34	100	91	A	H
	*	5670	98.04	-	-	87.03	32.02	6.43	27.44	100	91	P	H
	*	5670	90.32	-	-	79.31	32.02	6.43	27.44	100	91	A	H
		5727.2	51.59	-16.61	68.2	40.35	32.31	6.41	27.48	100	91	P	H
		5407.75	50.53	-23.47	74	39.58	31.9	6.39	27.34	100	67	P	V
		5466.2	50.05	-18.15	68.2	39.01	31.96	6.41	27.33	100	67	P	V
		5456.75	42.33	-11.67	54	31.32	31.93	6.41	27.33	100	67	A	V
	*	5670	94.66	-	-	83.65	32.02	6.43	27.44	100	67	P	V
	*	5670	86.12	-	-	75.11	32.02	6.43	27.44	100	67	A	V
		5730.665	51.6	-16.6	68.2	40.36	32.32	6.41	27.49	100	67	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 VHT40 (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)
		10960	48.87	-25.13	74	53.47	40.78	10.45	55.83	-	-	P	H
		10960	36.77	-17.23	54	41.37	40.78	10.45	55.83	-	-	A	H
		11020	47.48	-26.52	74	52.17	40.6	10.48	55.77	-	-	P	H
		14480	49.46	-24.54	74	52.03	41.82	11.71	56.1	-	-	P	H
		14480	38.41	-15.59	54	40.98	41.82	11.71	56.1	-	-	A	H
		16530	45.83	-22.37	68.2	49.03	39.87	12.27	55.34	-	-	P	H
		17978	55.92	-18.08	74	51.54	47.91	13.19	56.72	-	-	P	H
		17978	45.78	-8.22	54	41.4	47.91	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 102		10916	48.61	-25.39	74	53.2	40.87	10.43	55.89	-	-	P	V
5510MHz		10916	36.56	-17.44	54	41.15	40.87	10.43	55.89	-	-	A	V
		11020	48.17	-25.83	74	52.86	40.6	10.48	55.77	-	-	P	V
		14491	49.13	-24.87	74	51.63	41.86	11.72	56.08	-	-	P	V
		14491	39.04	-14.96	54	41.54	41.86	11.72	56.08	-	-	A	V
		16530	46.15	-22.05	68.2	49.35	39.87	12.27	55.34	-	-	P	V
		17967	55.81	-18.19	74	51.75	47.61	13.17	56.72	-	-	P	V
		17967	45.69	-8.31	54	41.63	47.61	13.17	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10927	48.67	-25.33	74	53.26	40.85	10.43	55.87	-	-	P	H
		10927	36.59	-17.41	54	41.18	40.85	10.43	55.87	-	-	A	H
		11100	47.58	-26.42	74	52.64	40.2	10.51	55.77	-	-	P	H
		14480	49.97	-24.03	74	52.54	41.82	11.71	56.1	-	-	P	H
		14480	38.1	-15.9	54	40.67	41.82	11.71	56.1	-	-	A	H
		16650	45.97	-22.23	68.2	49.16	39.95	12.31	55.45	-	-	P	H
		17978	55.7	-18.3	74	51.32	47.91	13.19	56.72	-	-	P	H
		17978	45.62	-8.38	54	41.24	47.91	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 110		10762	48.55	-25.45	74	53.68	40.62	10.35	56.1	-	-	P	V
5550MHz		10762	36.47	-17.53	54	41.6	40.62	10.35	56.1	-	-	A	V
		11100	48.54	-25.46	74	53.6	40.2	10.51	55.77	-	-	P	V
		14491	51.06	-22.94	74	53.56	41.86	11.72	56.08	-	-	P	V
		14491	38.93	-15.07	54	41.43	41.86	11.72	56.08	-	-	A	V
		16650	46.55	-21.65	68.2	49.74	39.95	12.31	55.45	-	-	P	V
		17978	55.91	-18.09	74	51.53	47.91	13.19	56.72	-	-	P	V
		17978	45.94	-8.06	54	41.56	47.91	13.19	56.72	-	-	A	V
													V
													V
													V
													V

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)
		10927	49.28	-24.72	74	53.87	40.85	10.43	55.87	-	-	P	H
		10927	37.18	-16.82	54	41.77	40.85	10.43	55.87	-	-	A	H
		11340	46.06	-27.94	74	51.45	39.78	10.61	55.78	-	-	P	H
		14491	49.65	-24.35	74	52.15	41.86	11.72	56.08	-	-	P	H
		14491	38.54	-15.46	54	41.04	41.86	11.72	56.08	-	-	A	H
		17010	47.39	-20.81	68.2	50.24	40.49	12.45	55.79	-	-	P	H
		17989	56.05	-17.95	74	51.38	48.2	13.19	56.72	-	-	P	H
		17989	45.97	-8.03	54	41.3	48.2	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT40													H
CH 134		10916	49.31	-24.69	74	53.9	40.87	10.43	55.89	-	-	P	V
5670MHz		10916	37.21	-16.79	54	41.8	40.87	10.43	55.89	-	-	A	V
		11340	46.59	-27.41	74	51.98	39.78	10.61	55.78	-	-	P	V
		14480	49.22	-24.78	74	51.79	41.82	11.71	56.1	-	-	P	V
		14480	39.05	-14.95	54	41.62	41.82	11.71	56.1	-	-	A	V
		17010	48.04	-20.16	68.2	50.89	40.49	12.45	55.79	-	-	P	V
		17989	56.39	-17.61	74	51.72	48.2	13.19	56.72	-	-	P	V
		17989	46.31	-7.69	54	41.64	48.2	13.19	56.72	-	-	A	V
													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	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 106 5530MHz		5459.68	55.2	-18.8	74	43.4	31.94	6.41	26.55	156	100	P	H
		5469.76	55.85	-12.35	68.2	44.02	31.98	6.41	26.56	156	100	P	H
		5459.44	45.35	-8.65	54	33.55	31.94	6.41	26.55	156	100	A	H
	*	5530	96.89	-	-	84.99	32.04	6.43	26.57	156	100	P	H
	*	5530	88.77	-	-	76.87	32.04	6.43	26.57	156	100	A	H
		5762.48	51.62	-16.58	68.2	39.48	32.4	6.4	26.66	156	100	P	H
		5447.44	50.76	-23.24	74	39.01	31.9	6.4	26.55	100	46	P	V
		5466.4	50.84	-17.36	68.2	39.02	31.97	6.41	26.56	100	46	P	V
		5457.76	43.84	-10.16	54	32.05	31.93	6.41	26.55	100	46	A	V
	*	5530	91.15	-	-	79.25	32.04	6.43	26.57	100	46	P	V
	*	5530	82.99	-	-	71.09	32.04	6.43	26.57	100	46	A	V
		5749.88	51.91	-16.29	68.2	39.76	32.4	6.41	26.66	100	46	P	V
802.11ac VHT80 CH 122 5610MHz		5404.25	50.85	-23.15	74	39.11	31.9	6.39	26.55	100	154	P	H
		5469	50.56	-17.64	68.2	38.73	31.98	6.41	26.56	100	154	P	H
		5427.7	43.08	-10.92	54	31.33	31.9	6.4	26.55	100	154	A	H
	*	5610	96.01	-	-	84.18	31.98	6.45	26.6	100	154	P	H
	*	5610	88.03	-	-	76.2	31.98	6.45	26.6	100	154	A	H
		5758.07	53.07	-15.13	68.2	40.93	32.4	6.4	26.66	100	154	P	H
		5438.9	50.62	-23.38	74	38.87	31.9	6.4	26.55	100	28	P	V
		5466.55	50.19	-18.01	68.2	38.37	31.97	6.41	26.56	100	28	P	V
		5452.2	43.18	-10.82	54	31.41	31.91	6.41	26.55	100	28	A	V
	*	5610	93.35	-	-	81.52	31.98	6.45	26.6	100	28	P	V
	*	5610	85.34	-	-	73.51	31.98	6.45	26.6	100	28	A	V
		5754.92	51.18	-17.02	68.2	39.04	32.4	6.4	26.66	100	28	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	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)
		10916	49.05	-24.95	74	53.64	40.87	10.43	55.89	-	-	P	H
		10916	36.97	-17.03	54	41.56	40.87	10.43	55.89	-	-	A	H
		11060	47.97	-26.03	74	52.84	40.4	10.5	55.77	-	-	P	H
		14491	50.1	-23.9	74	52.6	41.86	11.72	56.08	-	-	P	H
		14491	39.14	-14.86	54	41.64	41.86	11.72	56.08	-	-	A	H
		16590	46.71	-21.49	68.2	50	39.81	12.29	55.39	-	-	P	H
		17978	56.17	-17.83	74	51.79	47.91	13.19	56.72	-	-	P	H
		17978	44.25	-9.75	54	39.87	47.91	13.19	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT80													H
CH 106		10795	48.61	-25.39	74	53.6	40.69	10.37	56.05	-	-	P	V
5530MHz		10795	36.52	-17.48	54	41.51	40.69	10.37	56.05	-	-	A	V
		11060	47.72	-26.28	74	52.59	40.4	10.5	55.77	-	-	P	V
		14480	49.62	-24.38	74	52.19	41.82	11.71	56.1	-	-	P	V
		14480	38.68	-15.32	54	41.25	41.82	11.71	56.1	-	-	A	V
		16590	46.89	-21.31	68.2	50.18	39.81	12.29	55.39	-	-	P	V
		17956	55.86	-18.14	74	52.11	47.31	13.16	56.72	-	-	P	V
		17956	43.77	-10.23	54	40.02	47.31	13.16	56.72	-	-	A	V
													V
													V
													V
													V

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)
		11158	48.64	-25.36	74	53.9	39.97	10.54	55.77	-	-	P	H
		11158	36.55	-17.45	54	41.81	39.97	10.54	55.77	-	-	A	H
		11220	47.11	-26.89	74	52.54	39.78	10.56	55.77	-	-	P	H
		14480	49.25	-24.75	74	51.82	41.82	11.71	56.1	-	-	P	H
		14480	39.18	-14.82	54	41.75	41.82	11.71	56.1	-	-	A	H
		16830	47.27	-20.93	68.2	49.97	40.53	12.38	55.61	-	-	P	H
		18000	56.52	-17.48	74	51.54	48.5	13.2	56.72	-	-	P	H
		18000	46.37	-7.63	54	41.39	48.5	13.2	56.72	-	-	A	H
													H
													H
802.11ac													H
VHT80													H
CH 122		10806	48.89	-25.11	74	53.85	40.71	10.37	56.04	-	-	P	V
5610MHz		10806	36.78	-17.22	54	41.74	40.71	10.37	56.04	-	-	A	V
		11220	46.18	-27.82	74	51.61	39.78	10.56	55.77	-	-	P	V
		14480	49.61	-24.39	74	52.18	41.82	11.71	56.1	-	-	P	V
		14480	39.44	-14.56	54	42.01	41.82	11.71	56.1	-	-	A	V
		16830	46.95	-21.25	68.2	49.65	40.53	12.38	55.61	-	-	P	V
		18000	55.53	-18.47	74	50.55	48.5	13.2	56.72	-	-	P	V
		18000	45.38	-8.62	54	40.4	48.5	13.2	56.72	-	-	A	V
													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

5GHz WIFI 802.11ac VHT80 (SHF@ 1m)

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)
5GHz 802.11ac VHT80 SHF		33312	44.02	-24.18	68.2	40.49	40.84	16.95	54.26	-	-	P	H
		38020	47.52	-20.68	68.2	41.48	43.14	18.98	56.08	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		36128	45.62	-22.58	68.2	41.81	42.65	17.76	56.6	-	-	P	V
		37470	46.69	-21.51	68.2	42.04	42.71	18.66	56.72	-	-	P	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

5GHz WIFI 802.11ac VHT80 (LF @ 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)
5GHz 802.11ac VHT80 LF		38.73	26	-14	40	37.36	20.11	0.78	32.25	-	-	P	H
		89.17	26.79	-16.71	43.5	43.4	14.61	1.02	32.24	-	-	P	H
		293.84	28.97	-17.03	46	40.05	19.2	1.61	31.89	-	-	P	H
		327.79	29.01	-16.99	46	39.48	19.62	1.68	31.77	-	-	P	H
		720.64	32.49	-13.51	46	35.59	26.44	2.38	31.92	-	-	P	H
		950.53	32.54	-13.46	46	30.39	30.34	2.6	30.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		38.73	32.29	-7.71	40	43.65	20.11	0.78	32.25	-	-	P	V
		91.11	25.73	-17.77	43.5	42.2	14.75	1.02	32.24	-	-	P	V
		294.81	26.41	-19.59	46	37.44	19.23	1.62	31.88	-	-	P	V
		327.79	26.76	-19.24	46	37.23	19.62	1.68	31.77	-	-	P	V
		782.72	32.32	-13.68	46	33.5	27.81	2.46	31.45	-	-	P	V
		891.36	32.85	-13.15	46	32.67	28.68	2.57	31.07	-	-	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 with sufficient margin against limit line or 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)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

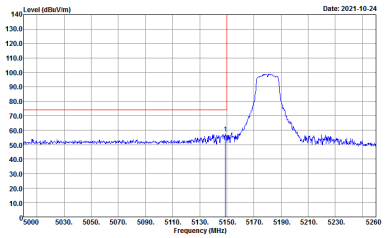
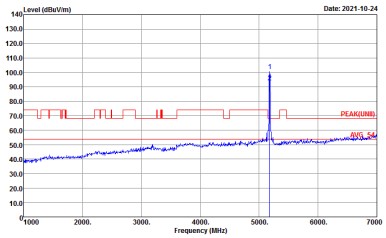
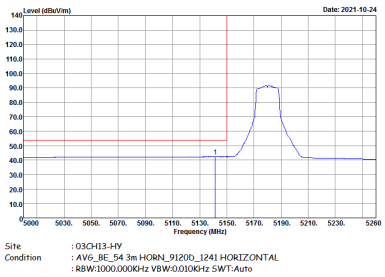
Test Engineer :	Yuan Lee, Jacky Hong, and Wilson Wu	**Temperature :**	20 ~ 25°C
		Relative Humidity :	50 ~ 60%

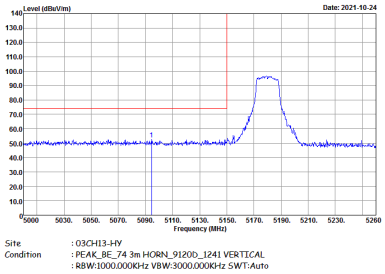
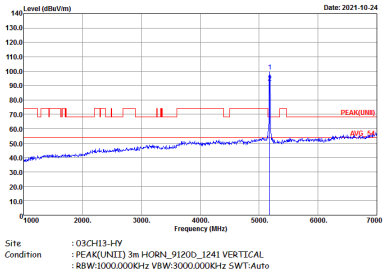
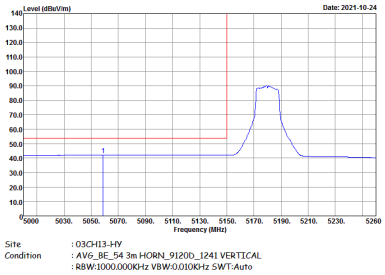
Note symbol

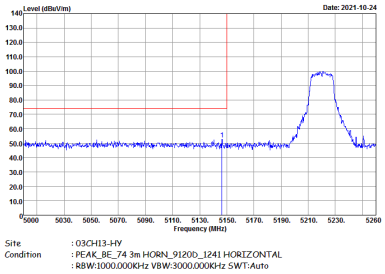
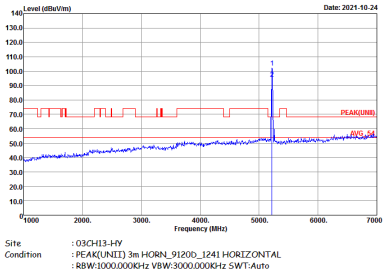
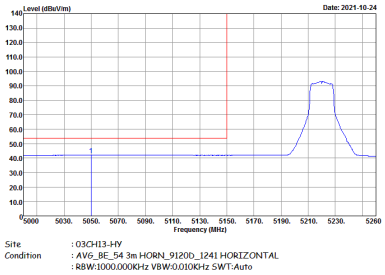
-L	**Low channel location**
-R	**High channel location**

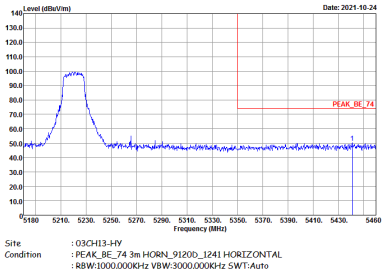
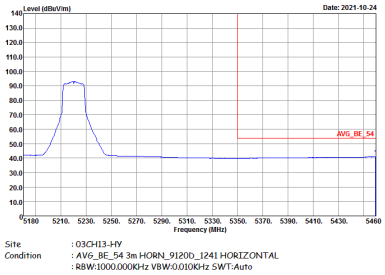
Band 1 - 5150~5250MHz

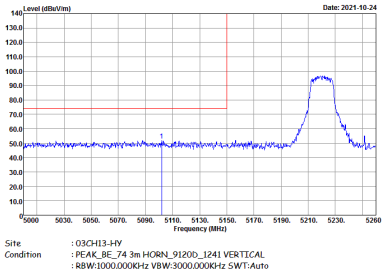
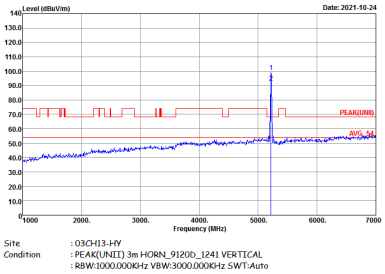
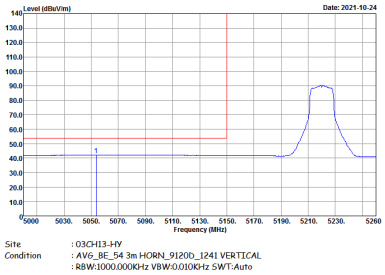
WIFI 802.11a (Band Edge @ 3m)

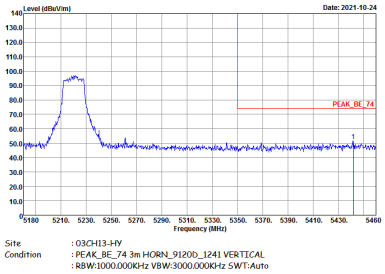
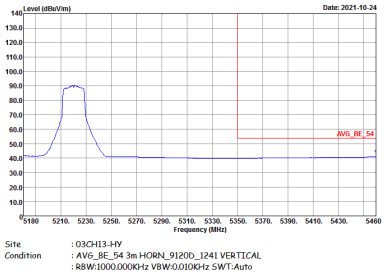
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

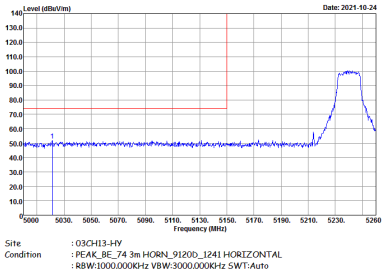
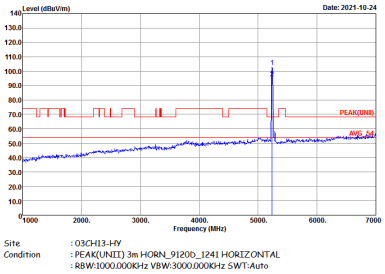
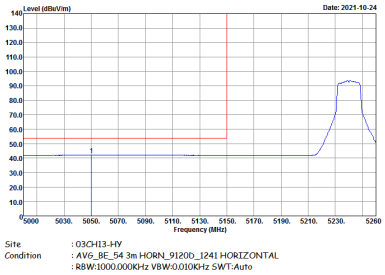
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

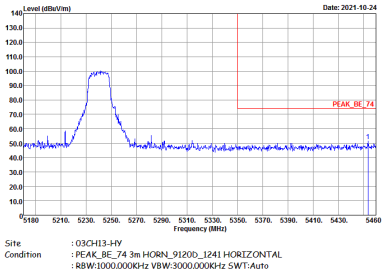
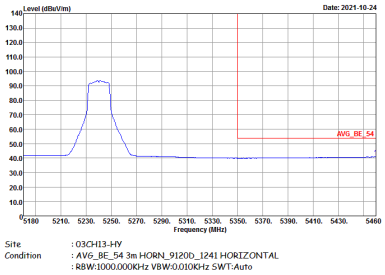
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

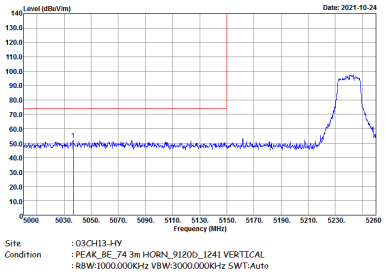
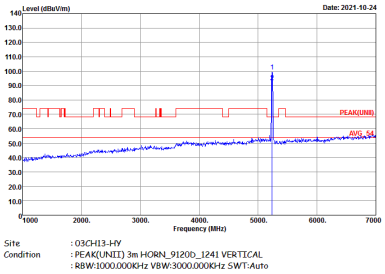
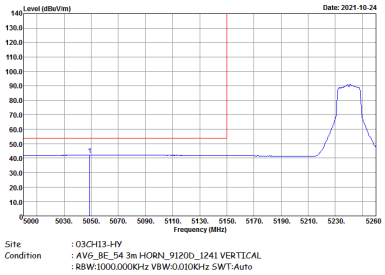
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

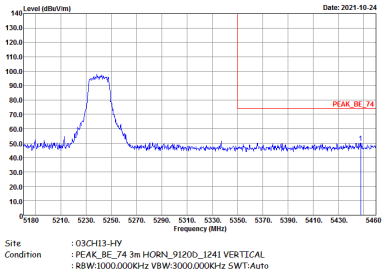
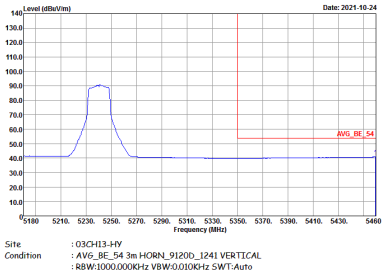
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

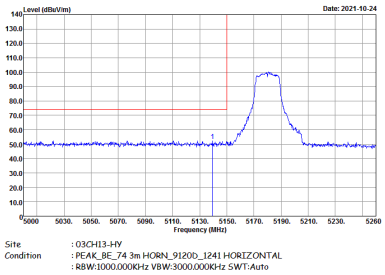
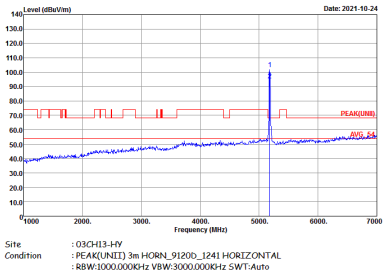
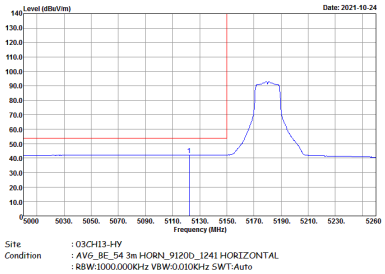
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

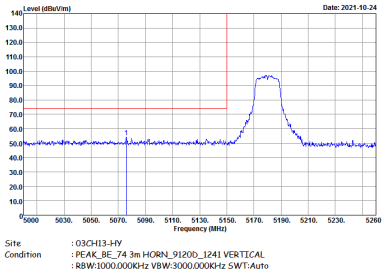
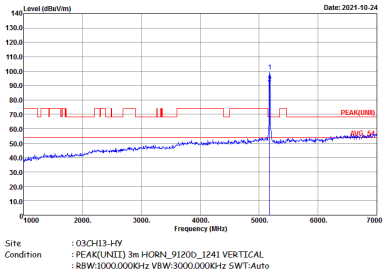
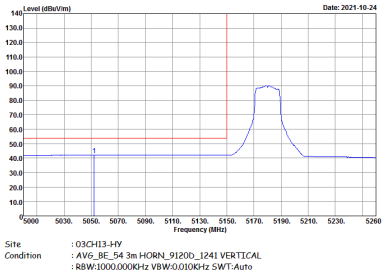
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

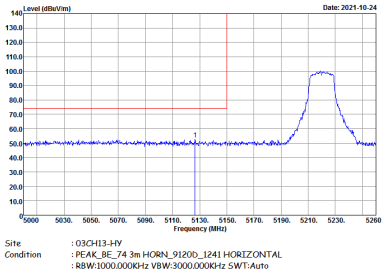
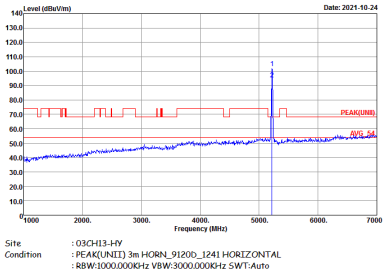
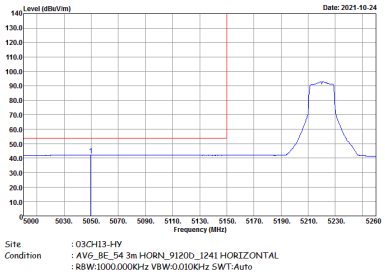
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

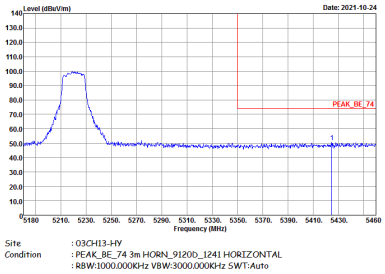
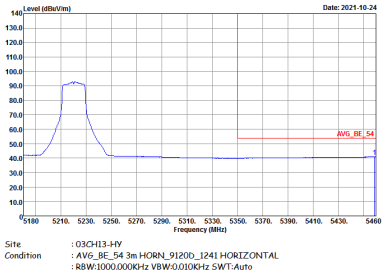
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

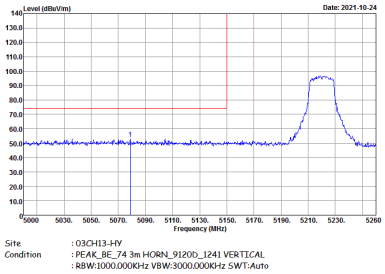
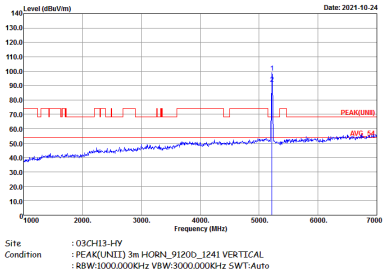
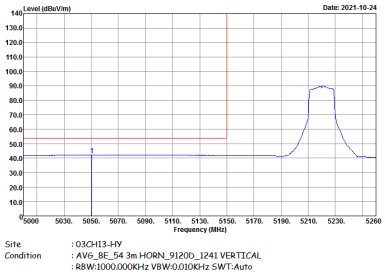
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

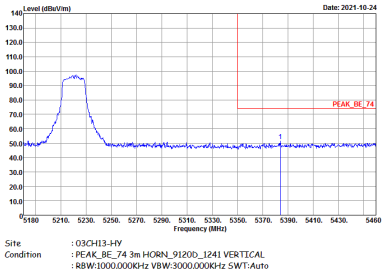
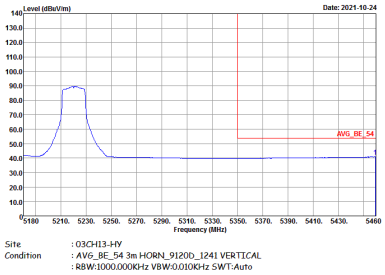
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

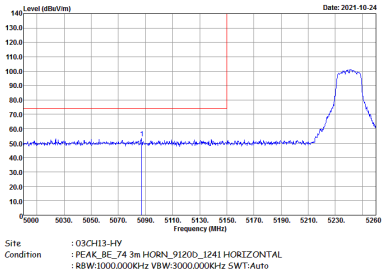
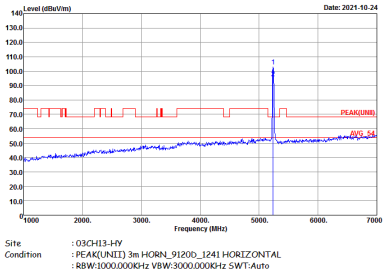
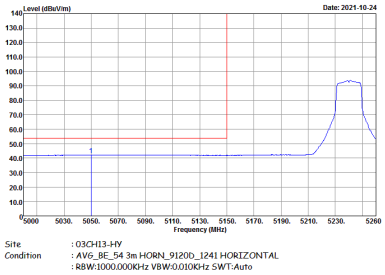
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

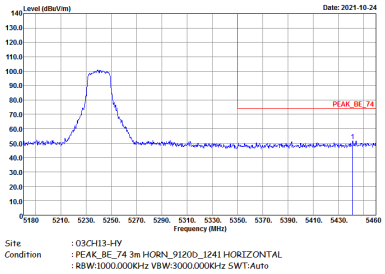
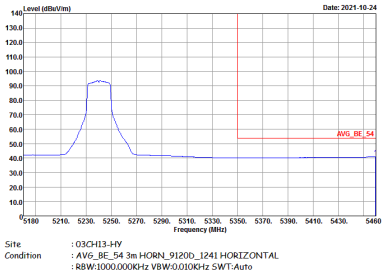
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

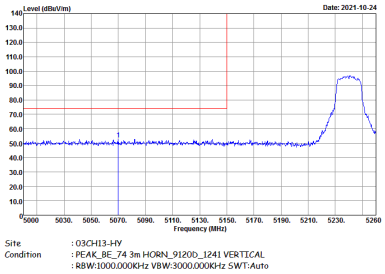
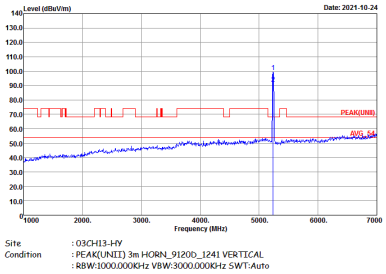
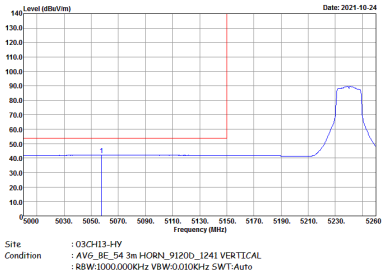
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

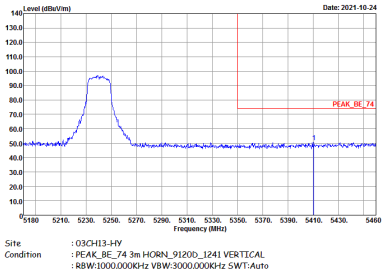
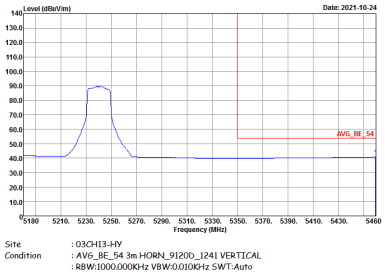
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

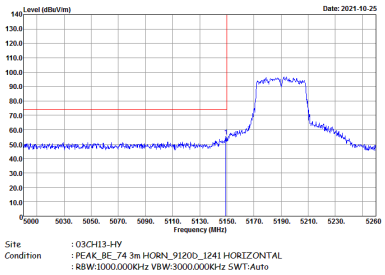
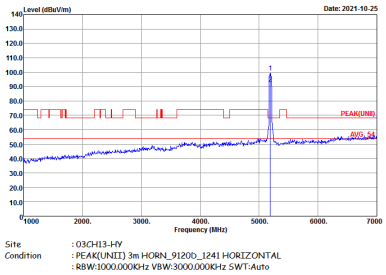
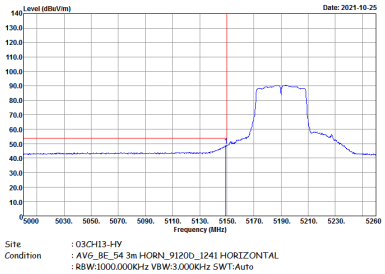
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

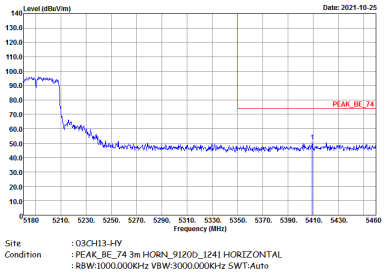
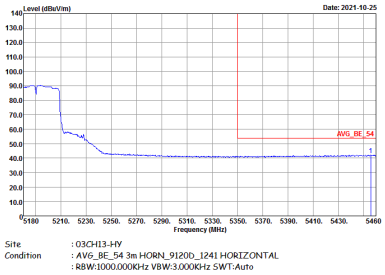
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

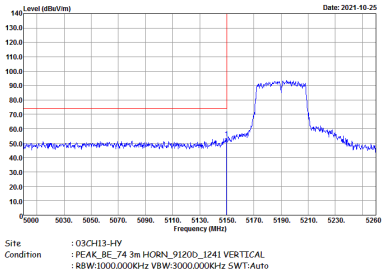
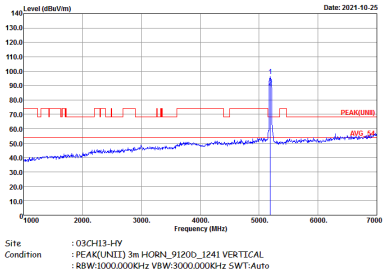
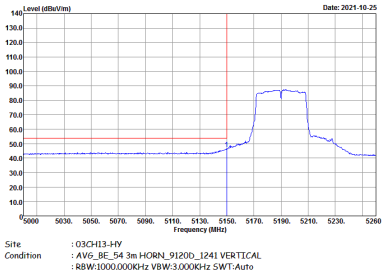
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

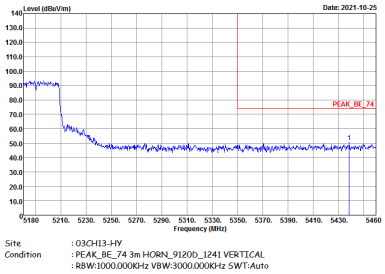
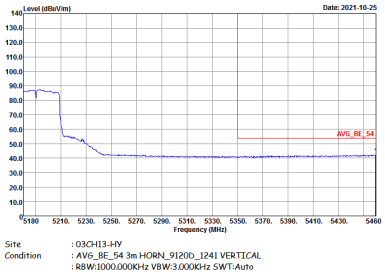
Band 1 5150~5250MHz

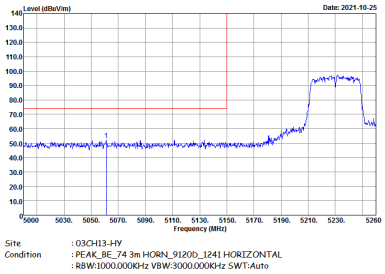
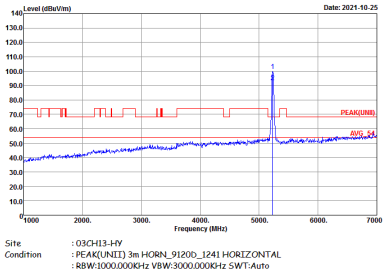
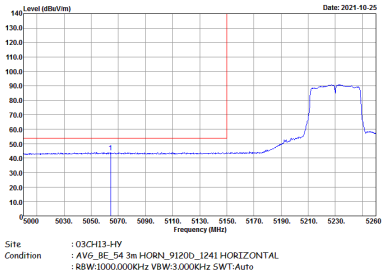
WIFI 802.11ac VHT40 (Band Edge @ 3m)

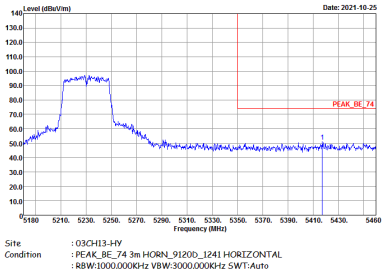
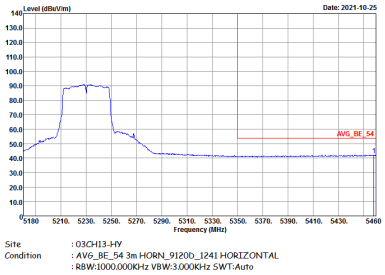
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

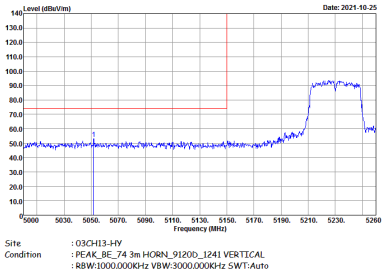
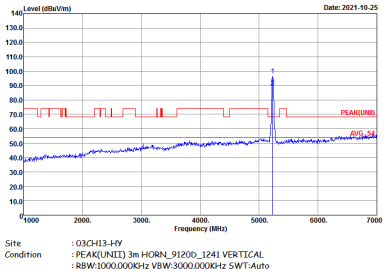
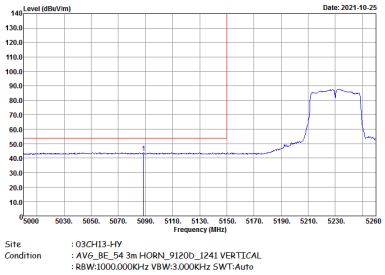
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

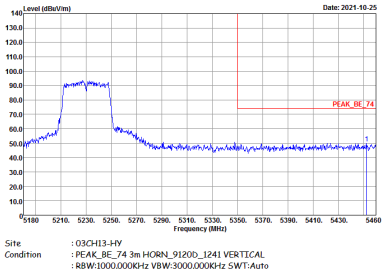
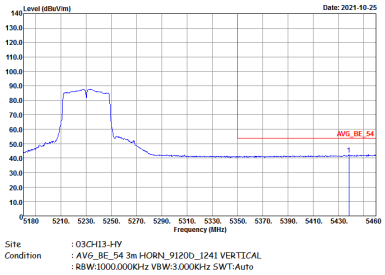
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

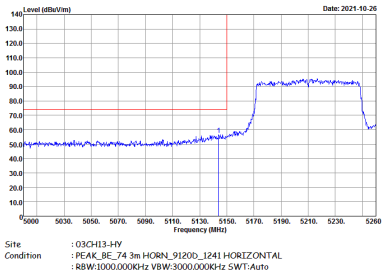
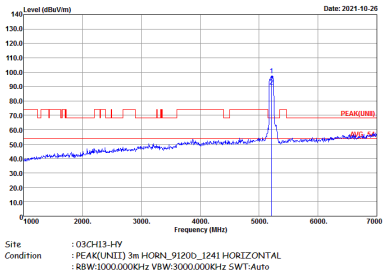
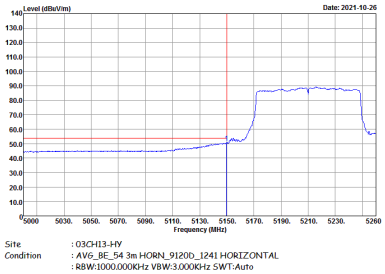
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

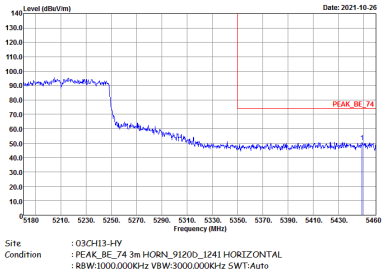
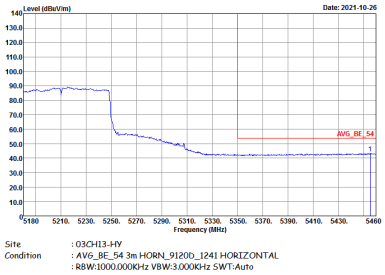
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

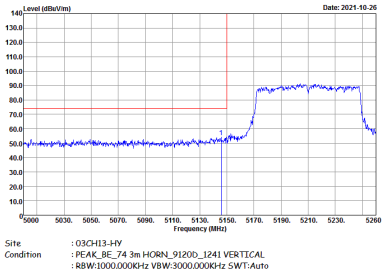
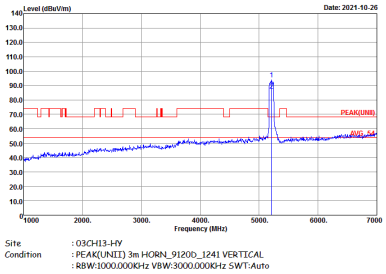
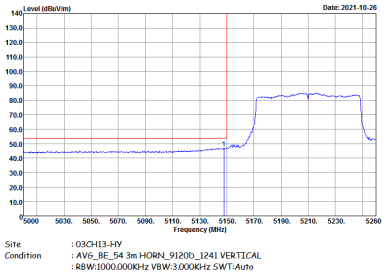
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

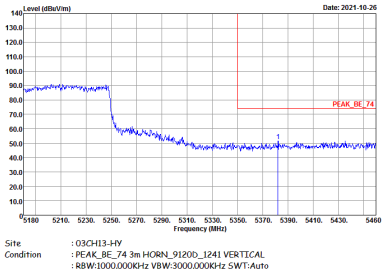
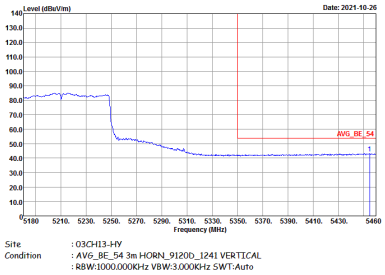
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

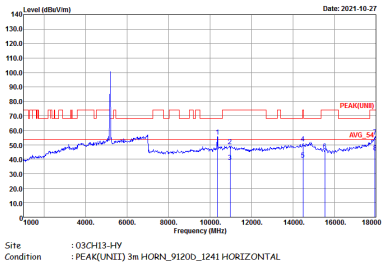
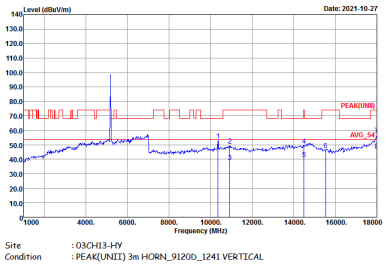
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

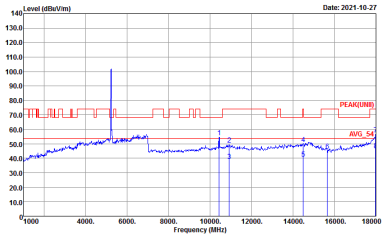
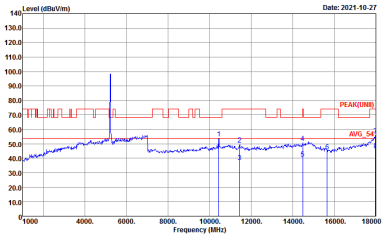
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

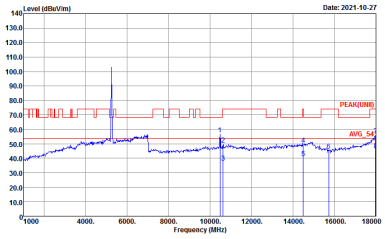
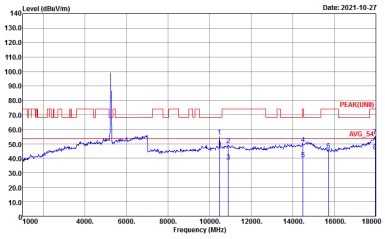
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

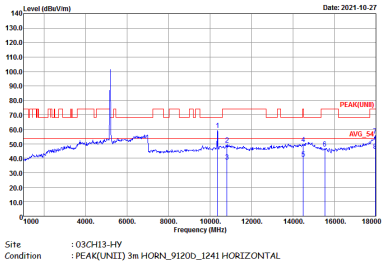
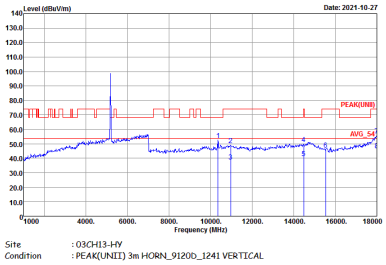
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

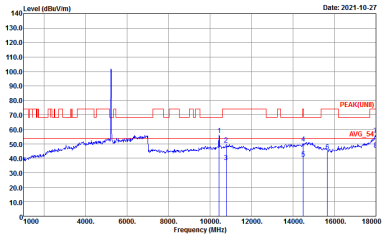
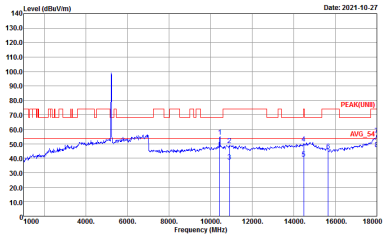
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL

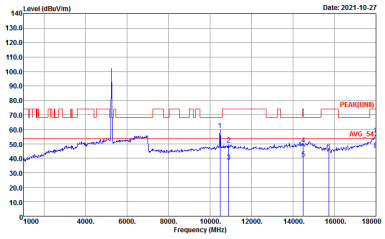
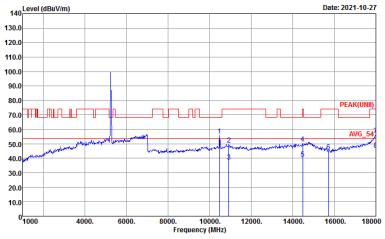
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

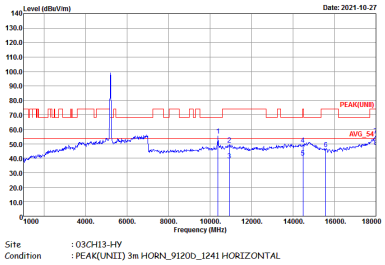
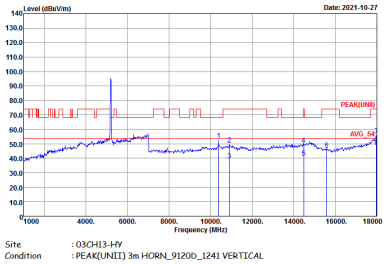
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

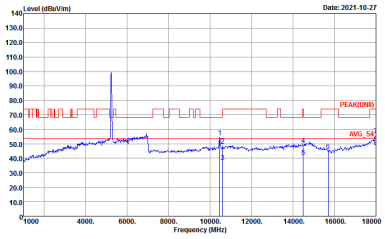
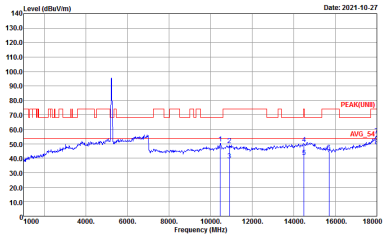
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL

Band 1 5150~5250MHz

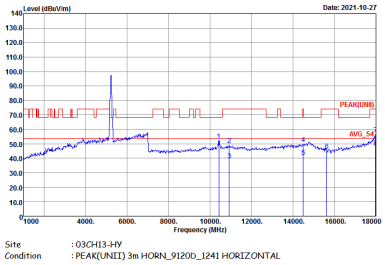
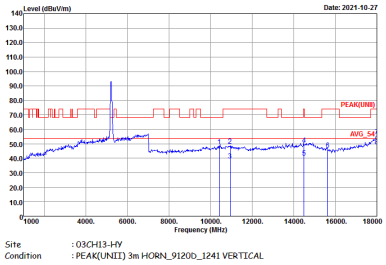
WIFI 802.11ac VHT40 (Harmonic @ 3m)

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

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

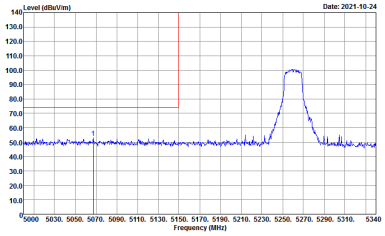
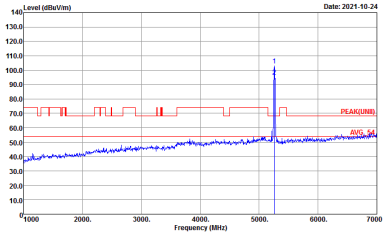
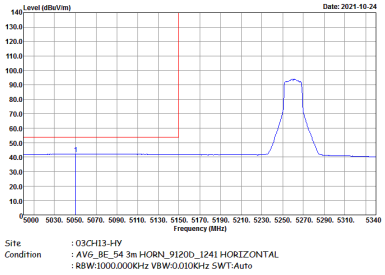
Band 1 5150~5250MHz

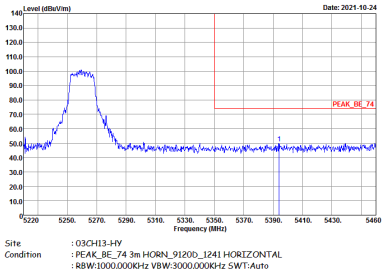
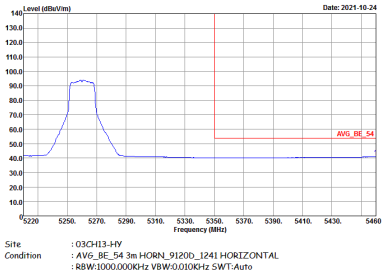
WIFI 802.11ac VHT80 (Harmonic @ 3m)

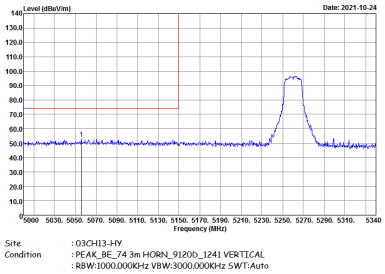
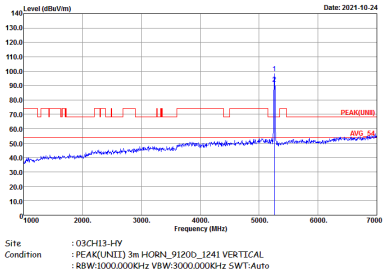
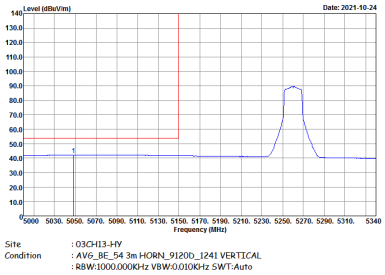
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

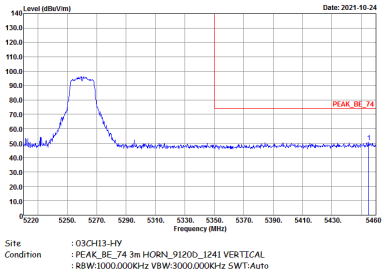
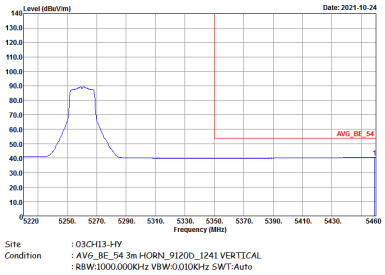
Band 2 - 5250~5350MHz

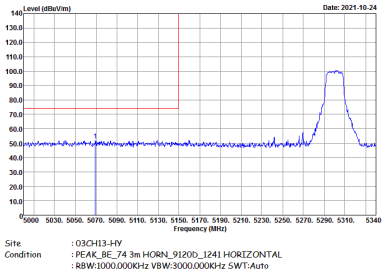
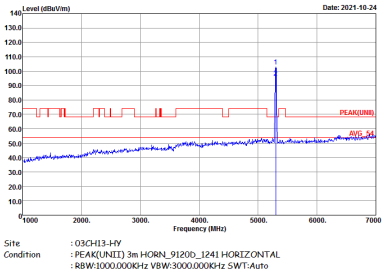
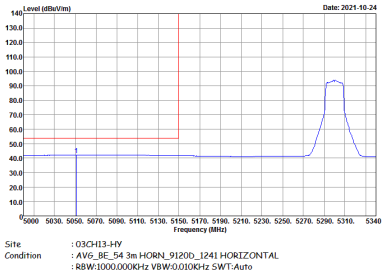
WIFI 802.11a (Band Edge @ 3m)

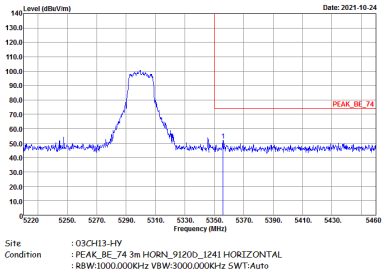
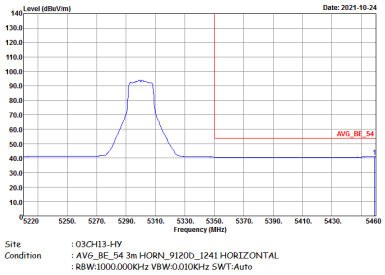
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

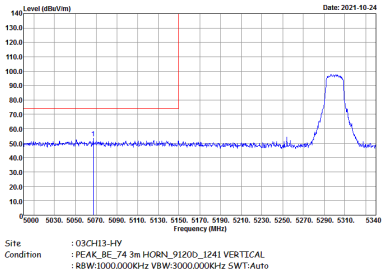
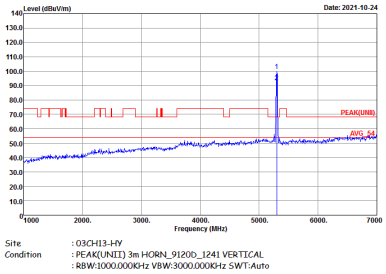
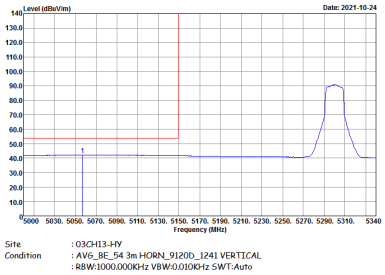
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

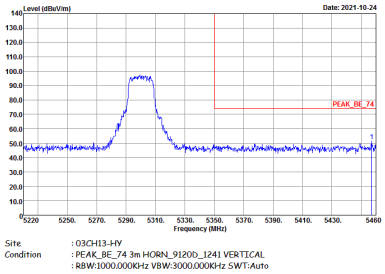
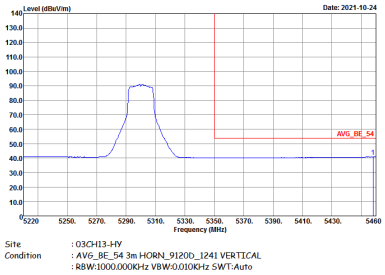
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

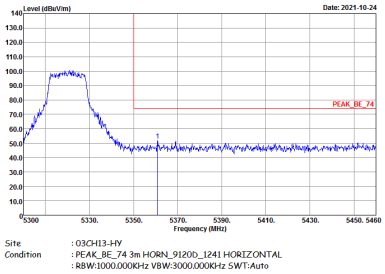
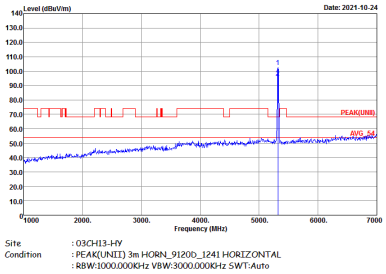
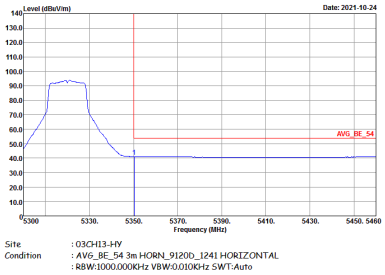
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

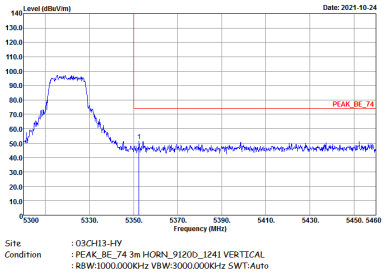
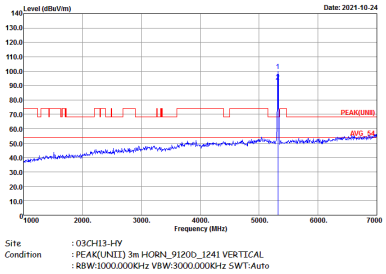
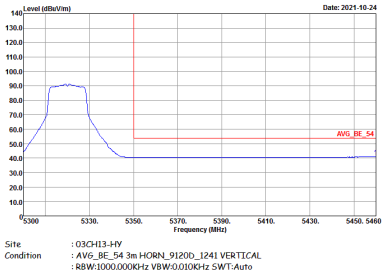
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

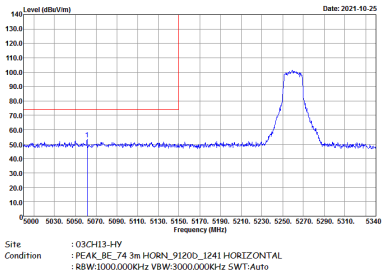
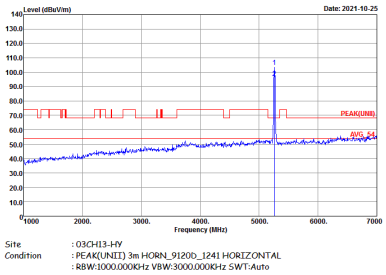
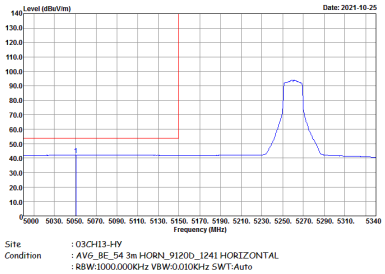
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

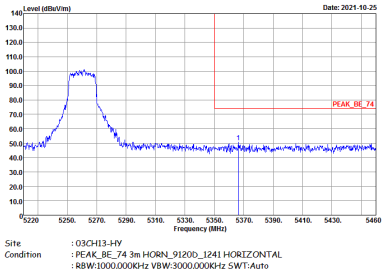
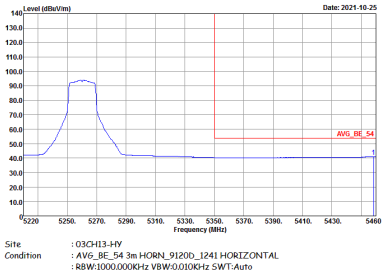
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

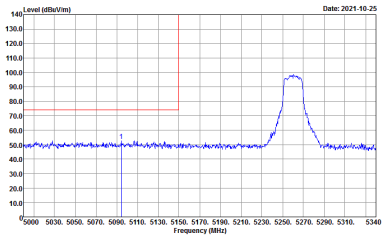
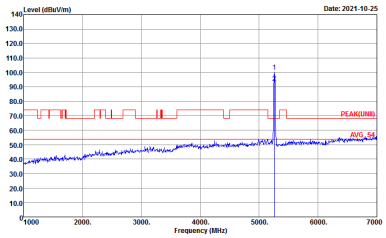
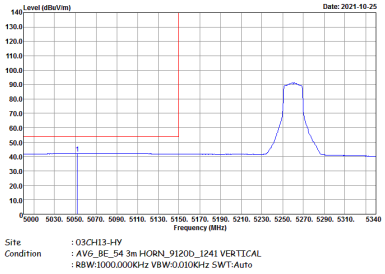
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

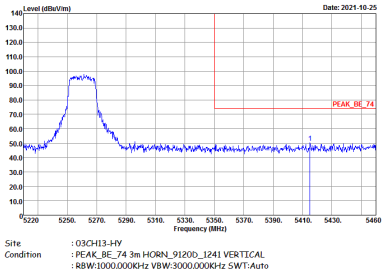
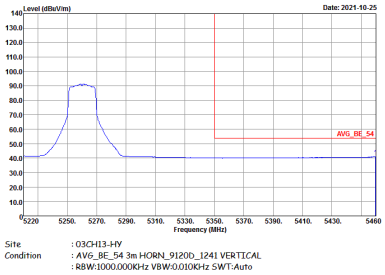
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

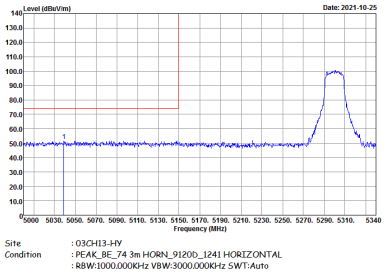
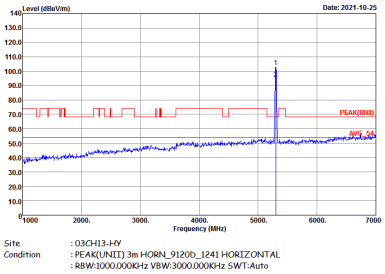
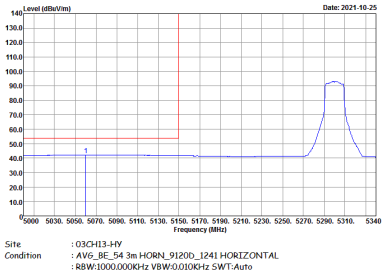
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

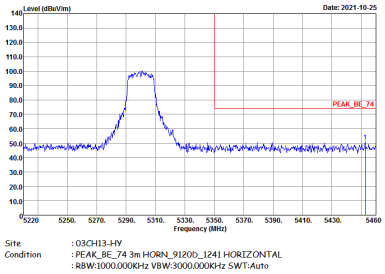
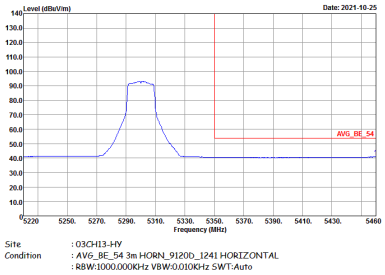
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

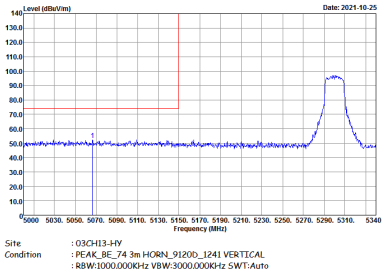
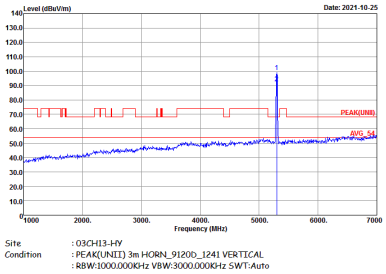
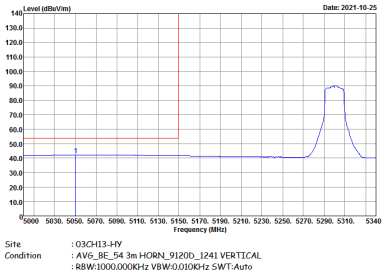
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

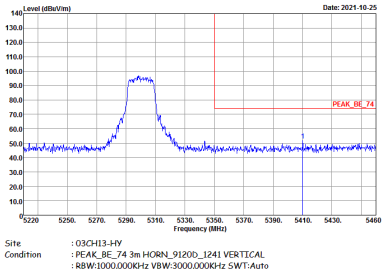
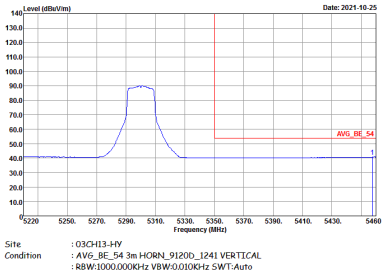
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

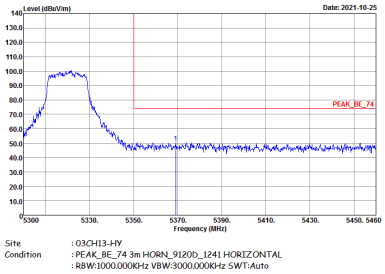
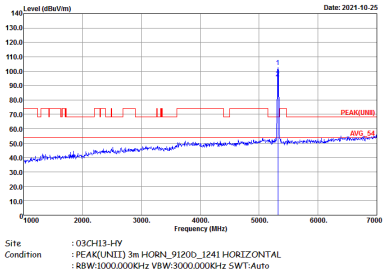
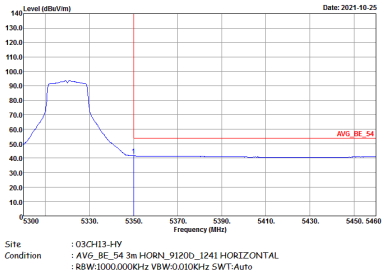
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

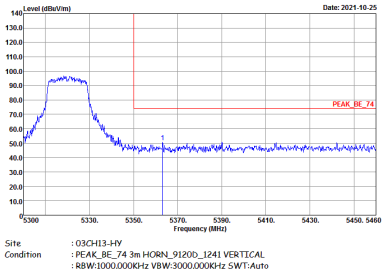
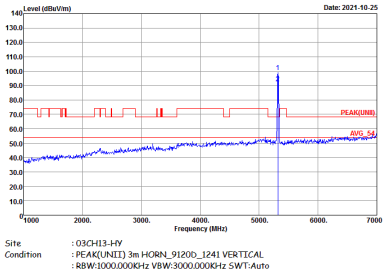
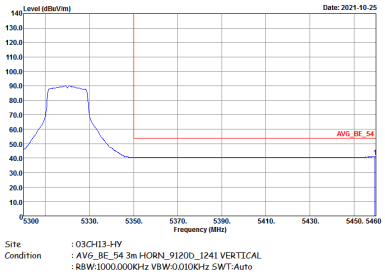
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank